



MacAddict

A BETTER MACHINE. A BETTER MAGAZINE.

THE FUN IS BACK!



New Products Return Apple to Its Roots: Fun, Creativity, and Killer Design!

- **iPOD MINI**
Apple's Sexiest Gadget Ever
- **GARAGEBAND**
Easy Software That Helps You Create Music Like the Pros
- **iLIFE '04**
Five Must-Have Content-Creation Apps

HOW TO:

- ➔ Add Search to Your Web Site
- ➔ Make Over Your Mac's Desktop
- ➔ Sneak onto a Windows Network
- ➔ Get Better Black-and-White Photos

HOW TO THROW A PARTY WITH YOUR MAC

- **Become an iPod DJ**
 - **Create a Digital Photo Booth**
 - **Set Up an iTunes Chill Space**
- and much more!*

REVIEWED:

- GoLive CS
 - Illustrator CS
 - 20-inch iMac
 - Carrara Studio 3
 - HP Laserjet 1012
 - Epson Stylus C84
 - Halo: Combat Evolved
- Plus 19 more top products**





Fade Out: The \$50,000 editing system. Fade In: Final Cut Pro 4.

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Cold Mountain In Theaters Now.



full scalability from DV to SD, HD and film – Final Cut Pro 4 now offers unmatched capabilities. And with four complimentary applications included – Soundtrack for music, LiveType for animated titling, Cinema Tools[®] for film and Compressor for encoding – it still offers unmatched value at \$999.



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- > Liandri DH-85
- > LEVIATHAN
- > J-1280G Raptor
- > FIGHTER H
- > FIGHTER SK

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Blood and Gore
Intense Violence
Mild Language



MacSoft

MacAddict

features

16 All About Cool

The iPod mini, GarageBand music-composition software, iLife improvements, and more—it's all good, and we show you why.
by the MacAddict Staff



22 Office Goes to 11



We've got a sneak preview of Microsoft's new Office 2004 for Mac, and we think you'll like what you see—from a totally new way to organize your work to a revolutionary way to take notes. **by Cathy Lu**

28 Party with Your Mac

Forget Trivial Pursuit and Spin the Bottle. Make your Mac the life of the party by turning it into a digital photo booth, MP3 jukebox, or digital bar. Vermouth not included. **by Narasu Rebbapragada**



how to

64 Ask Us

Extend your AirPort range, edit MacDraw documents, use cron to schedule scripts, and reset your iTunes Play Count. Deleting cookies from Internet Explorer will leave you feeling—whoo—clean as a whistle.



66 Make Over Your Desktop

Must we click-and-drag with ol' pointy? Do we have to stare at Apple's logo when we boot? Heck no. If you're sick of staring at the same ol' GUI, here's how to mix things up.
by Mary E. Tyler and Kris Fong



68 Add Search to Your Site

Unless you're anal about organizing your Web site, much of your content is likely buried in layers of Web pages. Do visitors to your site a favor—give them a search box.
by Niko Coucouvanis

72 Sneak Your Mac onto a Windows Network

It's Bring Your Mac to Work Day. Even if your job sticks you with a PC, you can sneak your Mac onto your company network. **by Ian Sammis**

74 Get Better Black and Whites

There's no need to rely on your digital camera's black-and-white mode (or your image-editor's grayscale conversion); go channel surfing to get more striking results. **by Kris Fong**



every month

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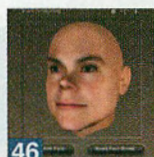
Our editor in chief takes a walk on the geek side at the San Francisco Mac Expo.

10 Get Info

We bring you the best of Mac Expo 2004. Plus, five tips for extending laptop battery life, an awesome way to custom-paint your Mac, a \$700 MP3 player, and the best in indie games.

37 Reviews

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- 61 **ThumbDrive** USB 2.0 flash drive
- 61 **USB 2.0/FireWire Combo Hub** two-in-one hub



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62 The Hot List

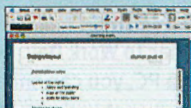
We'd spend our own hard-earned money on these products.

QUICK TIPS

FROM THIS MONTH'S ISSUE

➔ KICK BACK IN LECTURE HALL

Microsoft Word 2004 has a new Notebook view that lets you record audio as you take notes. If you miss something your professor or boss says, just play it back. **From "Office Goes to 11," p22.**

**➔ SAY NO TO BLOATWARE**

Sure, you can design a cursor that's larger than the standard 24-by-24-pixel arrow, but if you more than double its size, your system processes will sloow doooowwnnn. **From "Make Over Your Desktop," p66.**

**➔ MIDI WITHOUT THE MONEY**

S's Works' microSynth lets you use your Mac keyboard to experiment with creating multitrack MIDI compositions without expensive external MIDI keyboards. **From Shareware of the Month, p15.**

**➔ LEARN TO WALK AGAIN**

If you've been practicing your Halo skills on an Xbox and think you'll have a leg up on us Mac users, think again: The Mac version doesn't include gamepad support. Be sure to work your mousing and keyboarding skills. **From Reviews, p38.**

94 Log Out**94 Letters**

We love spam, we love spam not. A cat sends email, and the world rallies around Sasha das Wunderhamster.

95 Contest

Win two of the hottest Mac shooter games: Halo and Unreal Tournament 2004.

96 Shut Down

Tips and trends: Bring the soft, subtle shade of beige back into your life.



Hmm. Been surfing those dirty Web sites again?

Introducing a whole new way to carry your files.

Presenting the go-anywhere, carry-anything TravelDrive, from Memorex.

Whether you're looking for performance or style, the Memorex TravelDrive™ wins hands down. Incredibly small and durable, this beautifully sculpted drive represents the very best of Flash technology. With capacities ranging from 128MB to 1GB, it transfers tons of photos, music or data at rates up to 30% faster* than competitive USB™ 2.0 products. And the USB connection means it's compatible with both PC and Mac®, as well as many portable electronic devices.

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the disc

You've heard the buzz about Photoshop CS taking image editing to new heights—now's your chance to check it out for yourself. Also on this month's Disc: mil-spec security, drinks galore, the finalists of the sixth-annual Independent Games Festival awards, and a whole lot more.

BarWare Deluxe

With 775 drink recipes on your Mac, your party is the one that any self-respecting Mac addict will want to attend.



Photoshop CS tryout

Just when you thought Adobe's indispensable image-editing app couldn't get any better, it got better. A whole lot better.



SuperScrubber demo

Pay the shareware fee, scrub the data from any hard drive, and cover your tracks to U.S. military-security specifications.



ontheDisc

AUDIO & MUSIC

microSynth 1.0.3

FUN & GAMES

BarWare Deluxe 2.5
BarWare Deluxe X 2.5
Chompl! Safari 1.0
Dr. Blob's Organism demo
Dungeon Siege trailer
Ghost Master 1.0 demo
Primate Plunge 1.0
Solace 1.04 demo
Yohohol! Puzzle Pirates

GRAPHICS & MULTIMEDIA

Adobe Photoshop CS tryout
Canvas 9 demo
Carrara 3.0 demo
Easy Card 2.1.1
GraphicConverter X 4.9.2
Kaleidostrobe 1.0

INTERFACE

Mighty Mouse 1.1.2
ShapeShifter 1.0.1
ThemePark 1.2.1

INTERNET & COMMUNICATION

NetWare Client OS X 1.1.2 demo
Transmit (OS X) 2.6.1

PRODUCTIVITY

My Checkbook 1.8

UTILITIES

DiskTracker (Classic) 2.3
DiskTracker (OS X) 2.3
SuperScrubber 1.1 demo

SPONSORS

Jliva: SuperScrubber 1.1 demo

Staff Video: Party Time!

Mac editors *do* have more fun than their PC counterparts. Join the *MacAddict* staff as we party the night away with our Macs, iPods, and San Francisco's most beautiful people—then read about how we did it on page 28.



UPGRADE

If you don't receive the Disc with your copy of *MacAddict*, you might want to consider upgrading. Each monthly disc contains cool demos, useful shareware and freeware, and the inimitable *MacAddict* Staff Video. To get 12 issues of *MacAddict* that include this value-packed disc with your subscription (prorated if necessary) for just \$1 more per issue, call 888-771-6222—the operator will take care of everything.

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But Wait, There's More!



Imagine for a moment that you're Nobuyuki Idei, Sony's chairman and CEO. You've got to be steaming over the fact that when you release a smaller Walkman, nobody notices, but when Jobs-san announces the iPod mini, even Tokyo's *Asahi Shimbun* gives it ink. "Perhaps a pair of relaxed-fit Gap jeans and a black turtleneck might help," you muse.

You have to hand it to Apple—for over 20 years it has schooled the industry on how to make headlines. But if all you followed were the big stories coming out of San Francisco in January, you missed some of the other way-cool stuff on the Expo floor. Being an aspiring Alpha Geek, I was most entranced by some of the more propeller-headed contributions to Mac culture, such as:

WiebeTech G5Jam Sometimes a kludge is just a kludge, and sometimes it's a kick-ass bit of engineering. This storage upgrade for the Power Mac G5 fits squarely in the latter category. James Wiebe, the brains behind his eponymous company, swapped the clear-plastic air baffle in the Power Mac G5 for a metal, heat-diffusing version, to which he attached two SATA drives that fit into the front end of the PCI card compartment, and paired them with two more SATA drives in the G5's existing drive bays. Striped into a RAID 0 set, this concoction achieves over 200-Mbps throughput, fast enough for HD 1080i 10-bit uncompressed Final Cut Pro editing. The freight: \$2,499.95 for a 1 terabyte (TB) setup, \$1,499.95 for the 640GB version (www.wiebetech.com).

Oxford Semiconductor OXFW970 Yeah, I know—it takes a special kind of geek to get damp over a FireWire chip. I'm that guy. The OXFW970 chip (www.oxsemi.com) supports 7.1-channel sound coming straight out of your Mac's FireWire port (once you've installed the proper drivers, of course). Expect enterprising third-party folks—are you reading this, Mr. Wiebe?—to incorporate the OXFW970 into breakout boxes first, followed by its installation in speaker cabinets from major manufacturers. Finally, surround sound goes Mac in a simple, easy-to-use, no-PCI-card-needed way.

SoftRAID 3 If you think Mac OS 10.3's Disk Utility can provide all the RAID options you'll ever need, you're wrong. This \$129 utility (www.softraid.com) allows you to create non-RAID volumes on the same disk as RAID volumes, reports and tracks I/O errors, includes optimization settings tailored to your drive's usage, and has a nifty interface that shows your volumes' status and reports on their condition. My only gripe is that you can't currently boot from a SoftRAID 3 set—but Tim Standing, the company's VP of engineering, assured me that capability will arrive soon. As an inveterate storage addict, I'm like a kid waiting for Christmas.

Enjoy,

R.k.

coming soon: april 2004

Here's what our editors are preparing for the next issue of *MacAddict*.

Think you know your Mac inside out? We'll show you **33 things you didn't know your Mac could do**. We'll also have our sixth-annual April Fools' article with **tons of killer pranks**, as well as a **comprehensive look at tax software**. And we'll help you **replace your iPod's dead battery**, set up a TiVo-like system for **recording Internet radio shows**, and **clean out all the crap from your Mac** to keep it slim and healthy. Plus we've got a passel of reviews, from **digital SLRs** to **Webcams**, and a whole lot more. A whole lot.

STAFF RANTS

Q: What is the coolest thing you saw at the Mac Expo?



Cathy Lu TIVO ADDICT

What is the coolest thing you saw at the Mac Expo?
I loved El Gato's EyeTV 200 and EyeHome (www.elgato.com). The EyeTV 200 is a FireWire version of the company's DV recorder that uses MPEG-2 compression. The EyeHome lets you access your Mac's pictures, movies, and music on your TV. Now I never have to leave the couch!



Niko Coucouvanis TONE-DEAF AND COLOR-BLIND

What is the coolest thing you saw at the Mac Expo?
The EJ MIDI Turntable (www.ejenterprises.tv) from EJ Enterprises Worldwide lets you use your turntable as a MIDI controller to mix, match, scratch, or do whatever to any QuickTime-compatible file on your Mac—audio or video.



Jenifer Morgan JUST WILD ABOUT SAFFRON

What is the coolest thing you saw at the Mac Expo?
The iPod minis had nothing on the four-foot skillet of paella at the MacAddict party!



Narasu Rebbapragada SO OVER CDS

What is the coolest thing you saw at the Mac Expo?
Slim Devices' Squeezebox (www.slimdevices.com). This little black box with remote hooks up to your stereo and lets you wirelessly stream and play your iTunes music (but not music purchased from the iTunes Music Store) through your home stereo.



Peter Marshutz WINDOW SHOPPER

What is the coolest thing you saw at the Mac Expo?
GWM, 5'10", 170, 25-30YO, BLU eye, BLK hair, nice smile, geek-fabulous fashion, good sense of humor, iBook, iPod.



Kris Fong EXPO'D OUT

What is the coolest thing you saw at the Mac Expo?
Macsense's HomePod (www.macsense.com), a streaming music device with FM tuner that connects to a wired or wireless network and lets you play any song in any connected Mac's iTunes collection. Hook it up to some good speakers, though—the internals sound like mosquitoes.



Mark Rosenthal M. T. CRANIUM

What is the coolest thing you saw at the Mac Expo?
ChubbyWare's new NubDrive, hands down. Inventor Beven Q. Stobs took a USB ThumbDrive, scooped out its innards, and installed 128KB—not MB—of storage, adhering to his (emphasize *his*) theory that storing as little as possible will become an emancipating societal force.



Max MAC MAVEN

What is the coolest thing you saw at the Mac Expo?
Heard, actually. During his keynote speech, Steve mentioned that the iTunes Music Store had 70 percent of the market of downloadable music, then added, "Feels good to get above that 5 percent, doesn't it?" May the Mac's market share reach 70 percent as well.



iPod battery running low? Next month, we'll show you how to replace it.

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SCENE REPORT: MAC EXPO 2004

Multimedia Hardware Gadgets Rock the Floor

Blink and you could miss the good stuff. The biggest innovations at this January's Mac Expo 2004, held in San Francisco, were not at gargantuan booths funded by gargantuan companies. Most big boys—with the notable exception this year of Microsoft and its Office 2004 (see "Office Goes to 11," p22)—have long since stopped using the Mac Expo as a venue to announce new products. Instead, the most creative products were tucked away in small, nondescript cubicles on the show floor, proving that grass-roots development is still alive and kicking in the Mac community.

MULTIMEDIA DEVICES

The products that wowed us at the Expo bridged the gap between Mac-based multimedia and home-theater entertainment. China-based Avias (www.iavias.com), currently looking for U.S. distribution channels, demoed its **MEC Station Deluxe** (\$599 estimated), which downloads and plays video (MPEG-4, MPEG-2, MPEG-1, and DivX), still photos, or audio via FireWire on a 16:9 LCD display.

El Gato also expanded its EyeTV DV player and recorder line with the **EyeTV 200** (\$349, www.elgato.com), a silver box that records higher-quality MPEG-2 video over FireWire. El Gato launched



EJ Enterprises' MIDI Turntable.



Slim Devices' Squeezebox.



El Gato's EyeTV 200.

the **EyeHome** (\$249), which lets you view iTunes, iMovie, iPhoto, and EyeTV content on your television via an Ethernet or 802.11b connection.

Three gadgets connect your iTunes Music Library to your home stereo system. Both Slim Devices' **Squeezebox** (\$249 for wired or \$299 for wireless, www.slimdevices.com) and Macsense's **HomePod** (\$249, www.macsense.com) let you browse through, search for, and listen to your iTunes Library, Playlists,

and Internet radio stations on your home stereo system by streaming the music from your Mac through either a wired or wireless connection. xTremeMac claims that its as-yet-unnamed alternative (price TBA, www.xtrememac.com), due out in March, will stream iTunes audio over 300 feet with A2DP Class 1 Bluetooth.

TenTechnology's **naviPlay** (price TBA, www.tenttechnology.com), due out in Q1 2004, is a Bluetooth wireless transmitter and LCD-equipped remote control. One

piece replaces your iPod's dock connector, while another plugs into the 3.5mm stereo port in your speakers or headphones to transmit music wirelessly.

This one's so cool: EJ Enterprises Worldwide's **EJ MIDI Turntable** (\$749, www.ejenterprises.tv) system combines a time-coded LP and hardware module that hooks up to your Mac, allowing you to use standard DJ turntables to scratch and beat-match QuickTime video or audio.

HARDWARE

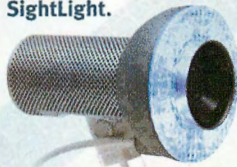
Lacie introduced its aptly named FireWire **Bigger Disk** (\$1,199, www.lacie.com), with one terabyte (TB) of storage on four spanned and striped 7,200-rpm drives that connect to your Mac via FireWire 400, FireWire 800, or USB 2.0. Also upping the ante, ATI's **Radeon 9800 Pro Mac Special Edition** (\$469, www.ati.com), due out in February '04, is a step above the 9800 Pro that's available as a built-to-order option with Apple Power Macs. This 8X AGP (read: G5 only) card, loaded with 256MB of DDR SDRAM, ships with Mac software that lets you configure the card for high-end game graphics.

TINY PERIPHERALS

Gadgets need not be large to impress. Take the **IntelliScanner Collector** (\$199, www.intelliscanner.com). This tiny USB bar-code scanner reads the codes on DVDs and books, and then searches the Internet for the corresponding title, director, and genre information. It throws this information into a database that you can rate, manage, and otherwise customize to create your own media lending library.

As usual, Griffin Technology came to the show with bright ideas like the **SightLight** (\$39.99, www.griffintechology.com), due out in April 2004. This light fits around your Apple iSight Web cam, sharing its FireWire connection, to provide a little diffused illumination for videoconferencing.

Griffin Technology's SightLight.



TELEPHONY

Two new products turn your Mac into a personalized answering service. Parliant's **PhoneValet Message Center** (\$199.95 per line, www.parliant.com) targets small businesses that have one to five analog phone lines. With a USB dongle that bridges the phone and the Mac, PhoneValet tells you who's calling (Caller ID and your address book), records messages in multiple voice mailboxes, and records information. **Ovolab's Phlink** (\$159.95, www.ovolab.com) plays customized greetings based on the caller's ID, records incoming messages in multiple mailboxes, and even emails them to you as AAC or 3GPP compressed audio files.

Ovolab's Phlink.



PRODUCTIVITY SOFTWARE

You Software's clever productivity utility **You Control** (\$49.95 download, www.yousoftware.com) can customize your Mac OS X menubar with helpful modules that let you play iTunes music, search files and folders, and access items on the pasteboard—all right from the menubar. And if you've outgrown Apple's .Mac Web templates, check out **SpinSite** (\$11.99 per month and up, www.spinsite.com). Targeting small businesses, this browser-based Web-site builder and host lets you choose graphics, a navigation system, discussion forums, and soon a PayPal online store, and add these elements quickly and easily to your Web site.

XTREME XSTUFF

Apple Revamps Enterprise

Apple muscled up its X line of enterprise-class products, due out in February 2004.

XSERVE G5

What it is: Packed into a 1U rack mount are single or dual 2.0GHz PowerPC G5 processors. Each of the two full-length 64-bit, 133MHz PCI-X slots has its own independent bus, and the eight DIMM slots accept up to 8GB of DDR SDRAM with ECC (error correction code).

Why it's cool: Each processor lives on its own user-swappable daughtercard. An optional \$1,099 Service Parts Kit contains a spare logic board, fan array, power supply, and PCI fan.

What it costs: A single-processor model starts at \$2,999; dual-processor for \$3,999; and a single-drive, dual-processor cluster node with no optical drive goes for \$2,999.

XSERVE RAID

What it is: This built-like-a-tank storage system can hold up to 3.5TB of high-speed RAID 0, 1, 3, 5, 10, 30, or 50 sets.

Why it's cool: It is aggressively priced and supports Windows and Linux, plus high-speed fiber-channel switches.

What it costs: A 1TB unit sells for \$5,999, 1.75TB for \$7,499, and 3.5TB for \$10,999.

XGRID

What it is: This Rendezvous-aware, IP-based clustering software is not a product—yet.

Why it's cool: You can link up to 84 Power Mac G5s to create a high-performance computing cluster, using—if you so choose—only their spare processor cycles while they're doing other work.

What it costs: Download the free beta from www.apple.com/acg.

Apple's Xserve G5

DROOLWORTHY

Sexy Stuff We Can't Wait to Get Our Mitts On

← iGuitar

The name says it all. Brian Moore's custom-made **iGuitars** (\$995 and up, www.iguitar.com) plug into a 13-pin USB interface such as Roland's GI-20, which then plugs into your Mac's USB port. This setup turns the iGuitar into a synthesizer when you use it with supported software such as BitHeadz Unity. The iGuitar also supports recording software such as DigiDesign's Pro Tools, and music notation software such as Coda's Finale.—NR



↓ BeoSound 2

In December 2003, Bang & Olufsen released Mac drivers and firmware for its insanely expensive **BeoSound 2** (\$695, www.bang-olufsen.com) stainless steel MP3 player that comes with a 128MB SD card, orb-looking Li-Ion recharger, and silver earphones surely designed for Spock. Make sure you purchase a unit preloaded with version 2.0 or later of the firmware for Mac compatibility, then download the iTunes plug-in from the B&O site. This MP3 player doesn't have an onboard LCD, but at this price, practicality is out the window anyway.—NR



PHOTOGRAPH COURTESY OF BRIAN MOORE GUITARS

PHOTOGRAPH BY MARK MADEO



COLORFUL MACS ARE BACK

ColorWare (www.colorwarepc.com), the custom-paint gurus behind Alienware's Technicolor PCs (www.alienware.com), is selling custom-painted iPods, iBooks, PowerBooks, and Power Mac G5s in two-dozen colors, including shimmering-green Envy, metallic-purple Prowler, and deep-orange Hybrid. ColorWare's proprietary nondye, wet-spray process voids Apple's warranty on iBooks,

PowerBooks, and G5s, but ColorWare is substituting its own warranty, the terms of which were unavailable as of press time. (Don't worry about your iPods; Apple will still cover them.) ColorWare sells the Macs and 'Pods for Apple's retail prices plus a painting charge of \$66 for iPods, \$490 for iBooks, and \$590 for PowerBooks and G5s. Alternatively, you can send in your own equipment and pay just the painting fee.



Check out ColorWare's PowerBook in Candy Apple (above left) and iPod in Midnight (above right).

PHOTOGRAPHY COURTESY OF COLORWARE

FIVE TIPS FOR MAXIMIZING BATTERY LIFE

While it's nearly impossible to get the purported five hours of life out of an iBook or PowerBook's Li-Ion battery, here's how to squeeze the last drops of power from your laptop's energy source.—NR

GENERAL HEALTH CARE

1 Dim Your Screen

Use the F1 key to dim your screen—backlighting eats up a lot of power.

2 Turn Off Nonessential Features

Turn off AirPort and Bluetooth when you don't need them. Also, remove CDs and DVDs when not in use—if left in, discs periodically spin up and down, sucking battery power.

3 Remove Your PowerBook Battery

Powering your laptop on and off—even when it's plugged in—can take a toll on your battery. Removing the battery in a desktop situation will save power,

although it might mess with your date and time.

RESUSCITATION ATTEMPTS

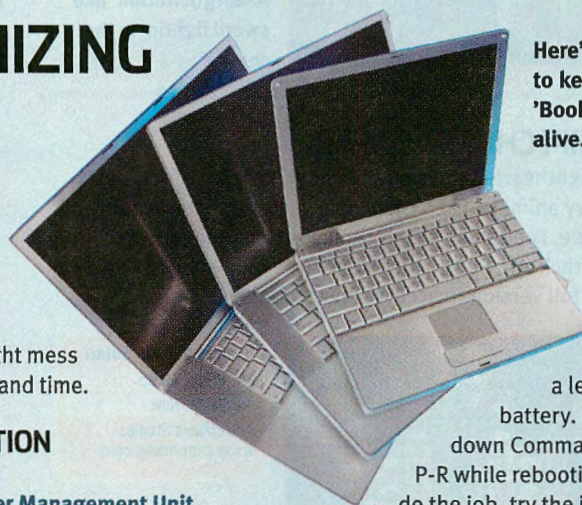
4 Reset Power Management Unit

A confused PMU can prevent your battery from recharging. Read Apple's support document "PowerBook and iBook: Resetting Power Management Unit (PMU)" to get instructions for your specific model of PowerBook or iBook (<http://docs.info.apple.com>).

5 Open Firmware Fix

Resetting your PRAM (parameter random access memory) can help revive

Here's how to keep your 'Book stayin' alive.



a lethargic battery. If holding down Command-Option-P-R while rebooting doesn't do the job, try the industrial-strength method: Boot into Open Firmware mode by holding down Option-Command-O-F. Type **reset-nvram**, press Return, then type **reset-all**, and press Return again. Reboot. Warning: Some MacInTouch (www.macintouch.com) readers have reported problems booting into Mac OS X after employing this fix. To remedy the situation, they reinstalled recent Apple firmware updates.

PHOTOGRAPH BY MARK MADEO



THE SIXTH ANNUAL INDEPENDENT GAMES FESTIVAL

Like Sundance for Games

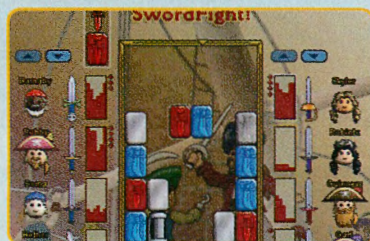
On March 24, 2004, the sixth annual Independent Games Festival (www.indiegames.com) will honor the best of indie games. Check out these Mac-friendly finalists.—Matt Osborn



Chomp! Chomp! Safari 1.0,
Dr. Blob's Organism 1.0, and
Yohoho! Puzzle Pirates

YOHOOH! PUZZLE PIRATES

In this massively multiplayer online role-playing game, you play a pirate who sword fights, sails, and wanders into a variety of puzzles and games, competing and chatting with other online pirates all the while. Warning: This game is still in beta and designed for Panther. Register online for a free name and password to play.



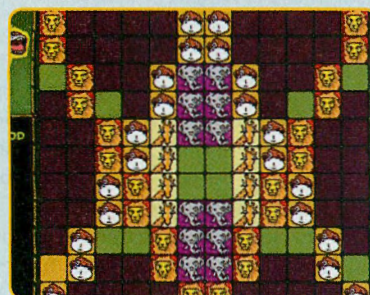
Yohoho! Puzzle Pirates

Price	Free
Available	Now
Three Rings Design www.puzzlepirates.com	

Aaaargh! Nothin' like sword fightin' in the sea air!

CHOMP! CHOMP! SAFARI

In this lighthearted puzzler, your goal is to place food next to hungry animals. Feed them incorrectly, and they could stampede. Feed them slowly, and you risk running out of time. Attack and Puzzle modes are free, but you need to buy the full version to access Adventure mode.



Chomp! Chomp! Safari

Price	\$9.95
Available	Now
AstroManic Studios www.astromanic.com	

Feed the animals in this Flash-based safari puzzler.

DR. BLOB'S ORGANISM

Dr. Blob's Organism is a fast-paced shoot-'em-up game where players blast one-celled organisms escaping from a Petri dish.

Dr. Blob's Organism

Price	\$10
Available	Now
Digital Eel http://digital-eel.com/organism	



Beasts with mystical powers fight humans with technological ones in *Savage*.

SAVAGE: THE BATTLE FOR NEWERTH

Savage combines real-time strategy and first-person shooting in a beautiful fantasy world where humans and beasts battle for survival. Side with the humans to utilize guns, swords, and even primitive chemical grenades, or side with the beasts to invoke mystical powers. A Mac demo should be out by the time you read this.

Savage: The Battle for Newerth

Price	\$29.99
Available	Q1 2004
S2 Games www.S2games.com	

ONE RING TO RULE THE MAC

Aspyr Media announced it will publish the Lord of The Rings: Return of the King for the Mac, the third-person action adventure title Electronic Arts published for nearly every platform but the Mac. Aspyr says Beenox will do the port. Based on the final installment of *The Lord of The Rings* movie trilogy, you can play Gandalf defending Minas Tirith, Aragorn leading the Army of the Dead, and Frodo and Sam as they destroy the ring at Mount Doom. As with the PC version, there is

no true networked multiplayer action to be had.—NR



The Lord of the Rings: Return of the King

Price	\$49.99
Available	April 2004
Aspyr Media www.aspyr.com	

Gandalf the White battles to save Middle Earth.

MADE WITH MACS

The Best Art Created with the Best Tools

NOW & THEM

Adam Freeland

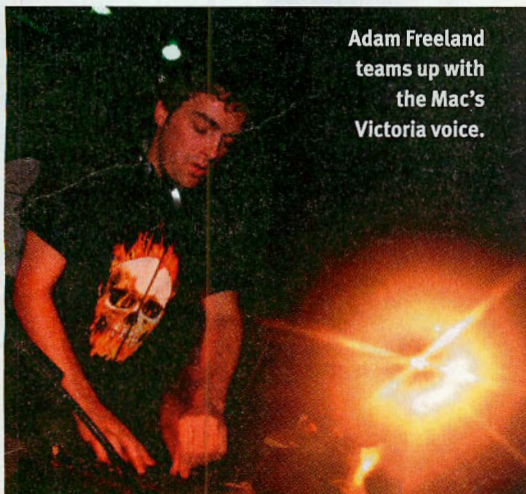
Check the liner notes on Adam Freeland's new album, *Now & Them* (Marine Parade Ltd., www.marineparade.co.uk), and you'll see that the vocals on the song "We Want Your Soul" are credited to Victoria Titanium, the very same gal that speaks on your Mac (check out System Preferences > Speech > Default Voice).

"Since we didn't have a vocalist, I wrote the lyrics and used the voice to speak them back. I would record [the lyrics] into the G4 Tower, through my mixing desk. We'd chop them up and get them to kind of flow better," Freeland says, explaining that he had to intentionally misspell words and elongate vowels to enable Victoria to

pronounce them correctly.

When recording *Now & Them*, the 30-year-old DJ, producer, and electronic artist ran Apple's (formerly Emagic's) Logic Audio on a Dual 533MHz Power Mac G4 and an unlucky 500MHz PowerBook, whose motherboard fried while on tour. Freeland is known for a style of breakbeat called "nu-skool breaks," which infuses hip-hop, world beat, and other sounds into traditional breakbeat.—NR

Adam Freeland
teams up with
the Mac's
Victoria voice.



PHOTOGRAPH BY MARK MADEO

TIP FOR CREATING A FRESHER-SOUNDING BREAKBEAT

"Too many people are using software synths and wondering why their sounds aren't sounding very fat. Rather than trying to use a drum machine, sample a classic funk breakbeat."

SHAREWARE PICK OF THE MONTH

MICROSYNTH <http://homepage.mac.com/seishvu/ssworks> \$20

MICROSYNTH

Cheaper than Apple's GarageBand for experimenting with MIDI composition, microSynth, from S's Works, uses your Mac keyboard to control an onscreen music keyboard. Plus, you can create multitrack tunes using QuickTime's built-in MIDI synthesizer. To add instruments, just import and play SoundFont2 and DLS format sounds. When you finish your masterpiece, you can export it as a MIDI file that's playable in QuickTime Player, a browser, or another MIDI sequencing application.—Andrew Tokuda



MIDI compositions—your Mac's keyboard controls the keyboard onscreen.



NEW STUFF

SIMPLESPEAKER

What it is: The little Higoto speaker plugs into your iPod's headphone jack and makes your MP3 player look like an alien.

Why it's cool: It's inexpensive and cordless—but don't expect big sound.

Higoto

\$10

Available: Now
www.higoto.com

SPY SOFTWARE

What it is: This application logs every key pressed, application launched, or image viewed on a designated Mac.

Why it's cool: ViewRemote sends information to the server so you can remotely access it via a Web-based interface.

ViewRemote for Mac

\$59.99

Available: Now
www.viewremote.com

WIRELESS INKJET

What it is: This four-color (with an option for six colors) printer offers 4,800-by-1,200-dpi printing of 4-by-6-inch through letter sizes. Its support for 802.11b wireless printing for up to five networked users is perfect for home offices.

Why it's cool: HP bills the Deskjet 5850 as a combined home-office and photo printer. While we wish six-color printing were built-in, the idea of combining black-and-white laser quality with photo quality appeals to us.

HP Deskjet 5850



\$249.99

Available: Now
www.hp.com

WORK FROM TIMBUKTU

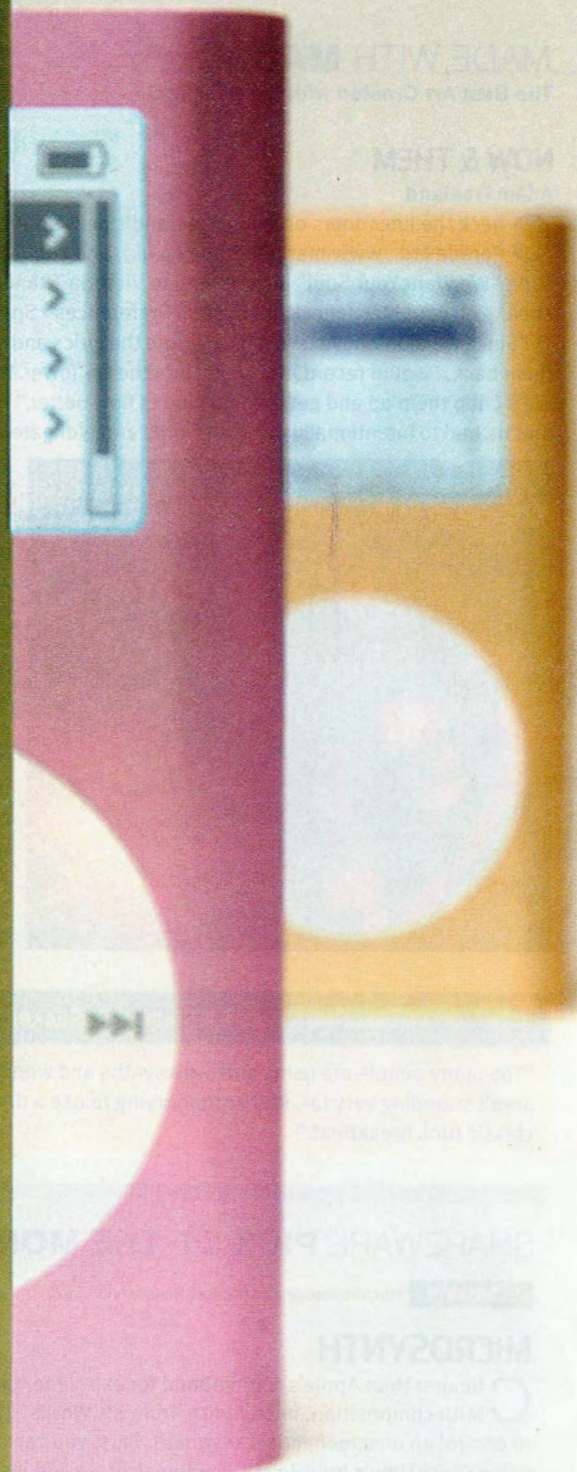
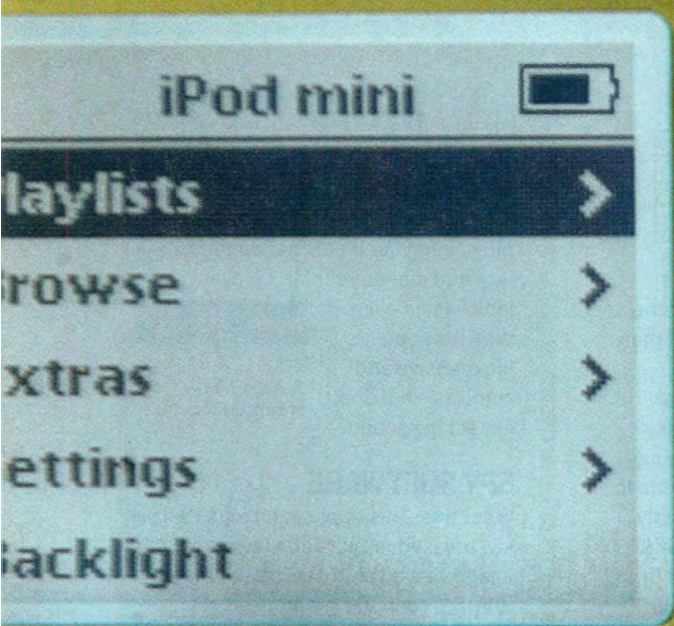
What it is: This remote-access software lets you access and transfer files to and from a remotely located Mac. This rev adds Panther support, improvements for faster load times, the ability to remotely run Apple System Profiler, plus multibutton and scroll-wheel support.

Why it's cool: Panther users can now work from home.

Timbuktu Pro 7.0 for Mac

Netopia

\$79.95 (single user)
Available: Now
www.netopia.com





All About Cool

With the birth of the iPod's cuter new sibling, a new and improved set of iApps, and a brand-new music creation app, Apple is challenging you to get seriously creative—and helping you become seriously cool. Ready?

BY THE **MACADDICT** STAFF

Apple's latest flurry of consumer products is all about cool. The new iPod mini, for example, holds a lot less than the least-capacious full-size iPod—4GB compared with 15GB—but it's arguably the slickest, most gorgeous MP3 player in the known universe. The latest incarnation of the iLife suite of digital lifestyle apps, iLife '04, includes light refreshes of four familiar apps—iTunes 4.2, iPhoto 4 (Apple hurdled over version 3), iMovie 4, and iDVD 4—plus a fifth app: a way-cool new music-creation tool called GarageBand. Built for Jaguar and Panther users, the collection can be yours for a mere 49 bucks in brick-'n'-mortar and e-stores by the time you read this. With the exception of iTunes, this means no more free iApp downloads—though all of iLife will come free on all new Macs. Turn the page for a closer look at Apple's new offerings.

SF
Mac Expo
2004

GarageBand

No band, instrument, or musical knowledge required.

Twisted Sister's Dee Snider said it best. When asked what he wanted to do with the rest of his life, he proclaimed, "I wanna rock!" Now, with GarageBand, anyone can—or if you prefer, you can salsa, hip-hop, get jazzed, and more. GarageBand allows everyone, from the tone-deaf to the multi-instrumentalist, to create music easily—with or without an instrument. This recording and sequencing package is a simplified version of higher-end audio packages such as Steinberg's Cubase (www.steinberg.net) and MOTU's Digital Performer (www.motu.com), but it includes cool features none of these apps contains, such as guitar amp emulators, prerecorded loops, and smart time and key transposing. Though avid audio editors will find GarageBand's tools lacking, the average Joe and Judy won't care one bit. To play, you'll need a DVD drive to install iLife '04 and at least a 600MHz G3—a G4 is highly recommended.

Build Songs with Loops If you lack musical talent, you're a lone musician, or your band mates just plain suck, you can build up a

great-sounding song foundation fast using Apple Loops—short, prerecorded instrument riffs (sampled audio and MIDI) played by real musicians. You can audition loops by selecting an instrument type from a 1,000-plus collection; a mood such as cheerful, relaxed, or intense; or a music genre, including rock and blues, electronic, and jazz. Then just drag and drop loops into the timeline, move them around, change volumes, edit notes, and lengthen or shorten loops to build a song—the app matches each loop's timing and key to make everything sound *juuuust* right.

Your Mac, Your Instrument Chances are you don't own every instrument known to God or humankind, but you want to create your own melodies with instruments you lack. GarageBand includes some of the most realistic-sounding virtual instruments we've ever heard—the acoustic guitar, for example, is amazing, right down to the string squeaks. GarageBand includes over 50 software instruments, including various drum kits, guitars, vocals, pianos, brass, and woodwinds. You need a USB or MIDI music keyboard (the type with black-and-white keys—not the alphanumeric kind) to play and record these instruments, or you can click out a basic melody using the built-in onscreen keyboard. And if your piano-playing skills aren't up to snuff, you can right your wrong notes and fix the timing afterwards. Don't like the instrument sound after you've

GarageBand's interface is so easy to use that we're predicting a renaissance in amateur music composition—from the truly inspired to the narcissistically insipid.

INSTRUMENTS
GarageBand includes over 50 remarkably realistic-sounding digital instruments. If you need more, pop for the \$99 Jam Pack (see p19), and add another 100.

TRACKS
Assemble your song layer by layer, whether the layers be Apple Loops sampled from real instruments (blue), MIDI software instruments (green), or your own performances (purple).

CONTROLS
Familiar tape-transport and record buttons control playback and recording, and a digital timer tells you where you are in your composition with 1,000th-of-a-second accuracy, plus your composition's beats-per-minute rating.

MASTER VOLUME
You can adjust your composition's master volume with click-and-drag precision, and expand each track to control per-track volume levels.

APPLE LOOP SELECTION
Narrow your choice of Apple Loops by choosing instrument type, musical style, mood, and timbre.

APPLE LOOP PREVIEW
After you've narrowed your loop list, audition your chosen loop by simply clicking it. Add it to your Favorites list by clicking a check box.

Name	Tempo	Key	Beats	Fav
Atmospheric Lead	95	G	8	<input checked="" type="checkbox"/>
Dreamy Guitar	115	E	8	<input type="checkbox"/>
Fingerstyle Line	120	A	4	<input type="checkbox"/>
Funky Wah	95	D	16	<input type="checkbox"/>
Muted Electric	90	A	8	<input type="checkbox"/>
Southern Rock Riff	112	C	16	<input type="checkbox"/>
		D	8	<input checked="" type="checkbox"/>
		D	16	<input type="checkbox"/>

Jam Pack

It's an entire musicians' union in a box.

If your musical tastes are eclectic or if GarageBand's stash-o'-sounds doesn't completely fill your needs, grab GarageBand Jam Pack for an extra 99 bucks. It gives you over 2,000 more Apple Loops, 100-plus extra software instruments, over 100 additional audio effects, and 15 more guitar amps. Then tell your old band mates to hit the road.

Jam Pack offers you 2,000 additional sounds.



scream out a performance and record it for posterity. Just hook up an instrument or microphone to your Mac through its audio-in port, press GarageBand's record button, and wait away, one track at a time. If you've got bad timing, the built-in metronome will help you stay on the beat. When you're finished, you can edit out parts of your performance, nudge a track in the timeline if your timing was off, or even turn your audio into a loop. For guitarists and bassists, GarageBand comes with four emulated amp models divvied up into 21 infinitely customizable amp sounds (from cool jazz tones to big-hair arena rock), so you can simply plug in and play.

Lay On the Effects Audio effects can do a lot to make lackluster tracks sound great. GarageBand includes 200 effects such as *chorus* and *echo* to make sounds fuller, *compressor* to make them more powerful, *noise gate* to get rid of hisses and hums,

and *reverb* to mask a less-than-stellar performance. Simply layer on a few audio-engineer-tuned presets, or tweak effects settings to your liking. When you're finished, just export the mix to iTunes, toss your opus onto a CD or your iPod, or add it to your oeuvre.

Record and Edit Live Performances If you're musically inclined—or just think you are—you can play, beat, and

recorded it? No problem. Just select a new instrument—your notes will remain unchanged.

iPhoto 4

Keep loading in all your digital photos—iPhoto 4 can handle 'em all.

Remember the old days, when slowly scrolling through your 1,000-picture iPhoto Library was more painful than looking at Michael Jackson's mug shot? Thankfully, those days are over. iPhoto 4 (upgraded from iPhoto 2—don't ask...) can now handle 25,000 photos with what Apple calls "blazing performance" and comes with lots of new features, including some very iTunes-esque ones.

iPhoto 4 offers improved methods of organizing your albums, including automatically creating one album for each of the past four years and throwing anything before that into an Early Photos album—and it uses the date you took the image rather than the date you imported it as its guide. In addition to a Last Roll album, there's also a Last 12 Months album—and if 12 months doesn't suit your needs, you can pick a different time period. Like iTunes, iPhoto 4 now has Smart Albums, which allow you to organize photos based on date, as well as



iPhoto 4 offers date-based albums as well as Smart Albums.

keywords or ratings you supply.

You can play with iPhoto's new sepia effect—and when you tire of your own pictures, you can check out someone else's. Via Rendezvous, other iPhoto Libraries on your network can appear in your iPhoto Library pane, allowing you to view those pictures on your Mac. Just make sure to delete your more personal photos—unless you're an exhibitionist.

iMovie and iDVD 4

Save time and help yourself to more creative freedom.

In iMovie 4, you can edit clips in timeline view as well as apply effects and transitions simultaneously to multiple clips, even ones that aren't next to each other—both huge time-savers. iMovie 4 also offers massive audio-editing improvements. You can use its new alignment guides to line up audio and video clips, and you can now view audio-track



iDVD 4 is no dog—it includes new themes and a navigation map.

waveforms and listen to audio as you scrub through video. Other iMovie 4 improvements include the power to import iSight video, the ability to lay titles over colored backgrounds (not just black), and more titles, such as a spinning effect and that ol' familiar *Star Wars*-style text-scrolling dealio. A new Share option houses

the familiar QuickTime export options as well as new output possibilities. For instance, you can publish your video to your .Mac HomePage, email it, or save it to a compatible Bluetooth device. iDVD 4 adds 20 new themes, along with an AutoPlay feature that lets you set a movie or slide show to play automatically when you load a DVD, and a navigation map that gives you a flowchart-style overview of your DVD's layout. iDVD 4 also comes with a slew of slick transitions, such as page-flip, cube, and dissolve, which you can add to slide shows and use for menu transitions. For those of you who can't seem to whittle down your home movies, iDVD uses the same encoding as DVD Studio Pro, which allows you to get two hours of video on a DVD at a higher quality than ever before, according to Apple.

iTunes 4.2

Not much new—but at least it's still free.

Apple recently updated its iTunes Music Store with 12,000 new classical tracks from Decca and Deutsche Grammophon Gesellschaft, advancing that collection from ludicrously underpopulated to merely disappointing. On the bright side, you can also now browse tunes as they appear on Billboard's Top 100 lists from 1946 through 2003. The Music Store's offerings now exceed half a million.

In addition, Apple has optimized iTunes for the iPod mini. If your iTunes Music Library is larger than the 4GB capacity of the iPod mini—or, for that matter, the capacity of any iPod—iTunes will automatically prioritize the download, syncing most-played, top-rated, and Playlist tracks first so that the music you most care about makes it onto your player.

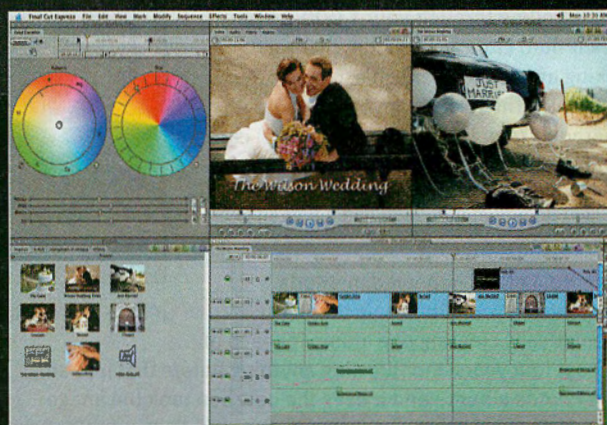


Reminisce with the new Billboard's Top 100 selections.

Final Cut Express 2

This sequel is better than the original.

Final Cut Express put high-end DV-editing tools into the hands of consumers for a fraction of Final Cut Pro's price, and represented a big step up from iMovie. Unlike most Hollywood sequels, Express's follow-up looks even better than the original. In version 2, you get more Pro features for the same \$299 price (\$99 upgrade). Based on Final Cut Pro 4 technology, Express 2 now handles up to five DV streams in real time; lets you preview filters, transitions, and effects in real time; features automated audio keyframing; supports Audio Units; and allows you to export markers for Soundtrack, DVD Studio Pro, iDVD, and Compression postproduction work. Plus, it features practically everything you need to edit video, color-correct footage, add keying effects, create motion titles, record voice-overs, and become a better moviemaker.



Unless you're Sophia Coppola, Peter Jackson, and Anthony Minghella all rolled into one, Final Cut Express 2 may provide all the video-editing chops you need.

iPod mini

It's just another iPod—only a lot cuter.



Apple goes after active, fashion-conscious music listeners with the smaller, Easter-colored iPod mini line.

The iPod mini (\$249, www.apple.com) is Apple's smaller, cheaper, more colorful music player for consumers who find standard iPods too large, too expensive, too scratchable, or too white.

Weighing 3.6 ounces, the 4GB iPod mini comes in a scratch-resistant anodized aluminum similar to the casing on PowerBooks. Since its narrow form factor can't house the standard iPod's four-button interface, Apple put the iPod mini's buttons right on the Touch Wheel, which scrolls through exactly the same user interface you'll find on the rest of the iPod line, but on a smaller (yet sharper) 1.67-inch LCD display. Perhaps in homage to the fruit-flavored iMacs, Apple also brought back colors—this time in more tasteful pastel casts of silver, gold, pink, blue, and green.

Unlike other portable music players of its size, the iPod mini

does not store music on flash-based media such as SD cards but rather on a tiny 1-inch hard disk, which informed sources say comes from Hitachi. Apple tells us you get the same 25 minutes of skip protection as on standard iPods.

Whether the iPod mini succeeds depends on whether it proves as rugged as similarly sized flash-based players and whether people think it's worth the price—an especially touchy point, since Apple has increased the storage capacity on its base-model \$299 iPod to 15GB. With an extra 11GB available for only \$50 more, the iPod mini will have to rely on its beauty and compact stature for its success—and we'll avoid the obvious comparisons to Hollywood starlets. ■

Little Sister and Big Brother

The two most affordable iPods have identical software, skip protection, and battery life—but that's where the similarities end.

iPod mini


\$249
4GB
3.6 by 2.0 by 0.5 inches
3.6 ounces
silver, gold, pink, blue, green
1.67-inch diagonal
25 minutes



Price
Storage
Dimensions
Weight
Colors
Display
Skip Protection

15GB iPod

\$299
15GB
4.1 by 2.4 by 0.62 inches
5.6 ounces
white
2-inch diagonal
25 minutes

 The iPod mini is now giving the MacAddict staff all kinds of body-image issues.

iPod mini Accessories

It's not all in the box.

iPod mini Arm Band \$29

When you're exercising, an iPod strapped to your arm with the iPod mini Arm Band will experience less hard-drive stress than one jostling around in your pocket, backpack, or belly-bag.

In-Ear Headphones \$39

Apple's alternative to the bundled earbuds comes in three form-fitting sizes from small to large. Try them all out,

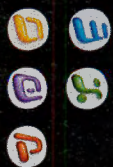
since wearing a size that's too big could hinder the headphones' performance.

iPod mini Dock \$39

This item unfortunately doesn't come free with your new iPod mini. The FireWire 400 (USB 2.0 for PC users) dock charges and syncs your iPod mini with your iTunes Library. It also has a headphone jack for hooking up to speakers.

Sneak Peek:

Microsoft
Office
2004



How much more powerful can Microsoft's veteran Office suite get?

You have no idea...

Office Goes to

BY CATHY LU

When Microsoft Office v. X came out more than two years ago, it was all about one thing: driving the move to Mac OS X. It was one of the first major apps to run in Mac OS X, but it offered only doggie scraps in terms of innovative new features.

Microsoft Office 2004 is all about *innovative*.

Want a central way to organize all of the bits and bytes of data that relate to one project? Office 2004's got it. Want to take lecture notes while recording the lecture? Word 2004 can do that. Need a place to keep text and images that you can access from any Office app? It's in there.

Microsoft recently visited our offices and gave us a taste of what's to come in Office 2004, showing off a few of the productivity suite's more fantastic features. At the time, the company remained zip-lipped about all other additions and couldn't comment on features we've been praying for, such as better junk-mail filtering in Entourage and improved charting options in Excel, so we can't report on additional enhancements—for now. Even so, we saw enough in Office 2004 to get us hyped up for the next generation of life-enhancing, timesaving productivity.

Microsoft
Office:mac
2004

Nuts and Bolts

Office 2004 for Mac

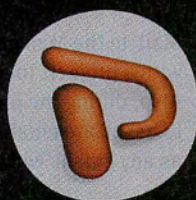
Company: Microsoft

Web Site: www.microsoft.com/mac

Release Date: First half of 2004

Price: Should be similar to current pricing

Requirements: Mac OS 10.2.8 and later



Project Center

No more excuses—it's time to organize your projects and your life.

Is getting organized number two on your list of New Year's Resolutions, right after losing 10 pounds? While Office 2004 can't help—and could hurt—in the losing 10 pounds department, it might just provide the kick in the too-tight pants you need to get organized. With Office 2004's Project Center, you can manage all of your projects.

Project Center lives in Entourage (it's just another window view like your email, calendar, and addresses) and provides an overview of your project by telling you your deadlines, what's on your to-do list, and what your schedule looks like—and that's just the beginning. A project can also store related files (Word docs, PDFs, and so forth), email messages, contacts, and notes.

Setting up a new project is simple: Just click the Project Center button in the upper-left corner of Entourage, then click New. From there, Entourage plays 20 Questions, asking you about due dates, what items you want to import, and which emails you want to associate with the project. It also asks if you want to create a Project Watch Folder, a folder on your drive that's linked to your project.

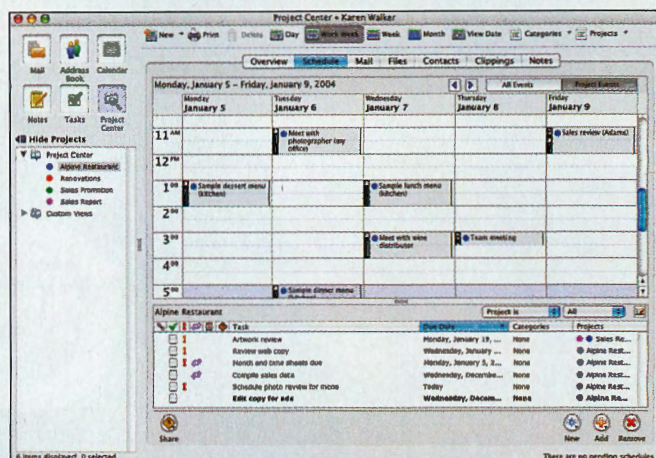
Even though Project Center lives in Entourage, it's part of every Office 2004 app. You can assign docs you create to a certain project, and each app has a Project palette (see "Toolbox," p27). Here's an overview of Project Center.

Project Center Button Click this button to access the Project Center interface, and you'll see all of your projects listed in the window below. Note that you can assign different colors to different projects (just as you can with Entourage categories).

Overview Pane View a summary of your project in the Overview pane, including your week's schedule and unaccomplished tasks, as well as items like new and recent mail, recent files,

items due this week, and past due items (you can customize the two columns below tasks at the bottom of this window).

Schedule Here you view your schedule and your tasks. You can view by month, week, or workweek, and you can look at just those events related to your project or all events on your calendar.

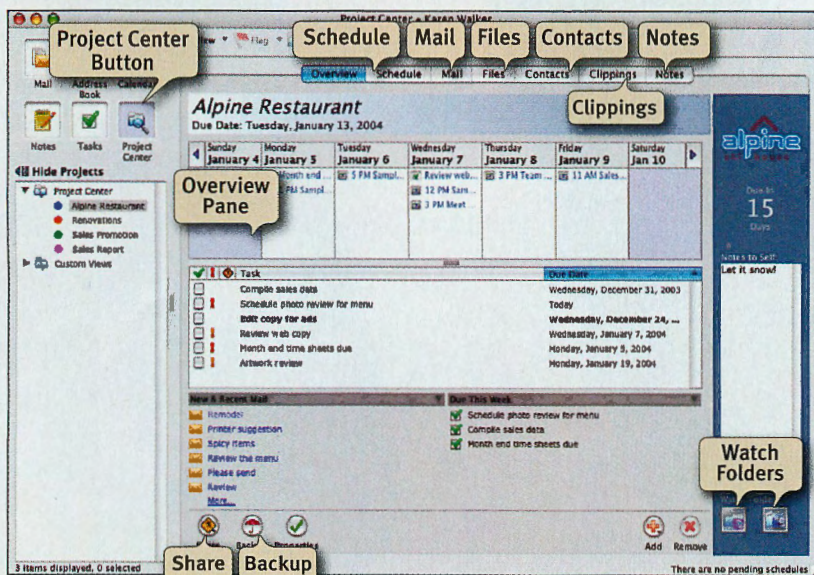


You can view project-related meetings and tasks in the Schedule pane.

Mail In the Mail pane, you can view all the emails associated with a project. To associate an email, drag it into this pane. Also, during the project setup process, you can tell Entourage to associate emails from designated project contacts as well as any emails with subject-line keywords you specify.

Files Here you get quick access to all files related to your project. You can add any file to your Watch Folder by clicking the Add button, and you can send any file as an email attachment by clicking the Send button.

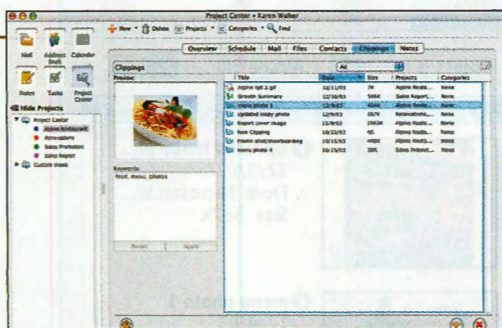
The Project Center houses all of your important project information under one roof.



Contacts Here you can view all contacts associated with your project, and click the MSN Messenger button for quick access to your Messenger buddies.

Clippings and Notes Clippings (see screenshot, top of facing page) come from your Scrapbook—a new feature in Office 2004 (see "Scrapbook," p26). In Notes, you can view your related Entourage Notes—an oft-overlooked feature of Entourage that lets you keep text notes.

Watch Folders Clicking these buttons opens up one of the Watch Folders that you designated in the setup wizard. Watch Folders live in your Finder and are associated with your project. Any files you add to a Watch Folder are automatically linked to your project. Add files by clicking Add or dragging them to the Watch Folder in the Finder.



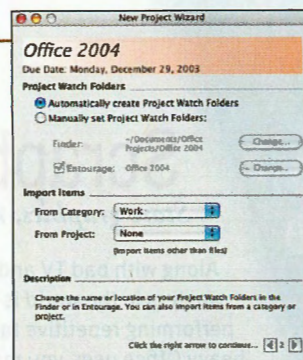
Clippings
come from the
Scrapbook,
another new
Office feature.

Share By clicking this magic button, you can share your whole project—or just parts of it—with others. This is a great shared-calendaring solution for small groups, although you'll need a server or iDisk to use this feature.

Backup You can archive your project (either parts of it or the whole shebang) via the new backup feature. Backup lets you

choose what you want to archive and whether you want to delete just the project or also the files within the project once you've archived it.

When you start a new project, the wizard walks you through setup.



THE BUZZ

No more searching through 1,000-plus email messages and 20 different folders looking for pieces of one project.

THE BUZZKILL

Will users put the effort into organizing a project in Entourage, on top of actually doing the project? We're not sure—do you clean your closet every spring?

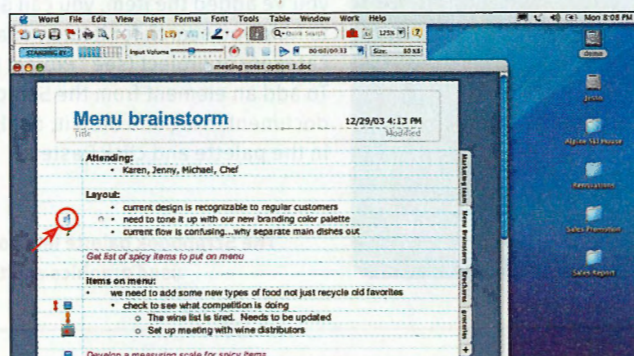
Word's Notebook

Take the drag out of note-taking with this digital rendition of the old-fashioned paper notebook.

We suspect this scenario will be familiar to many of you: You're sitting in a meeting or lecture hall, and the boss or professor is talking a mile and a half a minute. You're trying to keep up on your PowerBook, but instead of writing "Project due February 27," somehow your Mac (not you, of course) types "Projeu dsue jajoierny 18." When you look back at your notes, you regret not having taken touch-typing in high school.

Luckily, you might find salvation in Word 2004's Notebook Layout view. Mimicking the look of ruled notebook paper, this view lets you tap out notes that Word will format as an outline. Tabs at the right organize notes on different subjects, and you can create new tabs by clicking the plus-sign (+) tab.

You know how when you take pages and pages of notes, you're constantly flipping through that notebook or scrolling through that Word doc looking for that one essential note? Via the Formatting Palette, you can instantly flag certain lines with check boxes, exclamation points, and question marks. You can even set a note as an Entourage task. Also via the Formatting Palette, you can sort your notes in ascending or descending order, or you can promote



Ditch your tape recorder. Word 2004 will record audio and sync it to your notes. Click the speaker icon to listen.

or demote a line to create more hierarchy. You can also drag and drop items and lines to move text around.

While all this is useful, it still doesn't solve your "Projeu dsue jajoierny 18" problem. That's why the minute you sit down in class, at a meeting, or in an interview, you'll want to press the round red record button in the new audio toolbar. In Notebook view, Word can record audio as you type notes. Every line you type (after pressing Return) gets a time stamp, so that when you want to play back the audio of a section, all you have to do is hover your mouse over the first line of the section and click the blue speaker icon that appears (sorry, Word can't transcribe the audio for you—we humans still need *something* to do). Word uses MPEG-4 as its audio format, which means an hour of audio will produce a 6MB or 7MB file—now *that's* compression.

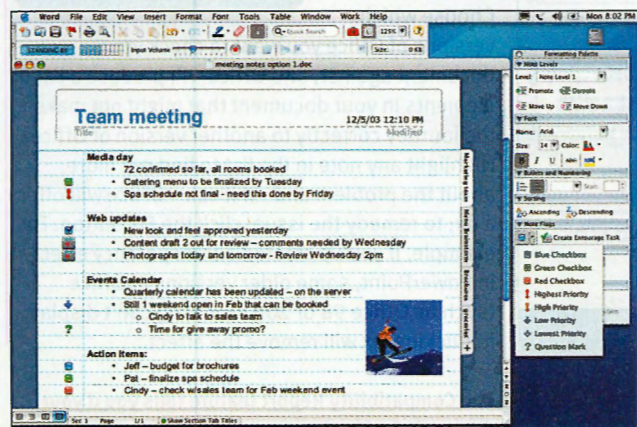
One final bonus: comprehensive searches. Say you're cramming for a biology exam and are having trouble telling your Golgi bodies apart from your endoplasmic reticula. Just do a search for *cell*, and Word will highlight all instances of that word, as well as the tabs under which they appear.

THE BUZZ

We can't wait to get our poor, overworked Cinderella fingers on Word's Notebook, especially its ability to record audio while we're taking notes.

THE BUZZKILL

Until Word 2004 comes out, typing's just going to seem wrong.



Word's new Notebook view is totally old school. In a good way.

Scrapbook

Store graphics, text, and other bits and bobs.

Along with bad TV and Sunday afternoons, one of the greatest time-wasters in the world is the inability to get organized enough to avoid performing repetitive tasks in Microsoft Office. For example, if you're a heavy Office user, you may find yourself constantly accessing a few of the same logos or graphics to stick into newsletters or PowerPoint. Or if you're like us, you're constantly typing the same Word document headers again and again because you never bothered to make a template.

Office 2004's new Scrapbook feature might change your habits. The Scrapbook, accessible from the new toolbox palette (see "Toolbox," facing page), stores any images or bits of text you need to access often. To add

something to the Scrapbook, create that element in your Word, Excel, or PowerPoint file, then click Add in the toolbox's Scrapbook palette. Once you've added the item, you can add keywords to help you search for it later, or assign it to a category or project (see "Project Center," p24). To add an element from the Scrapbook to your document, drag and drop it, or highlight the item in the palette and click Paste.

THE BUZZ

Many Office features go underutilized because they're either buried or not worth the hassle. The Scrapbook is a simple, intuitive, in-your-face way to keep oft-used graphics and text by your side.

THE BUZZKILL

If you add a graphic to the Scrapbook and then tweak the graphic in its native app, Office doesn't automatically update it.

The Scrapbook palette lets you keep frequently used graphics and text close at hand.



Compatibility Reports

Never send an incompatible document again.

If you plan to hobnob with PC users or Ice Age Mac users (those running older versions of Office), you'll appreciate Office 2004's ability to create compatibility reports. This feature lets you check your documents to make sure they'll appear correctly formatted to users of Office 97, 2000, 2002, and 2003 for

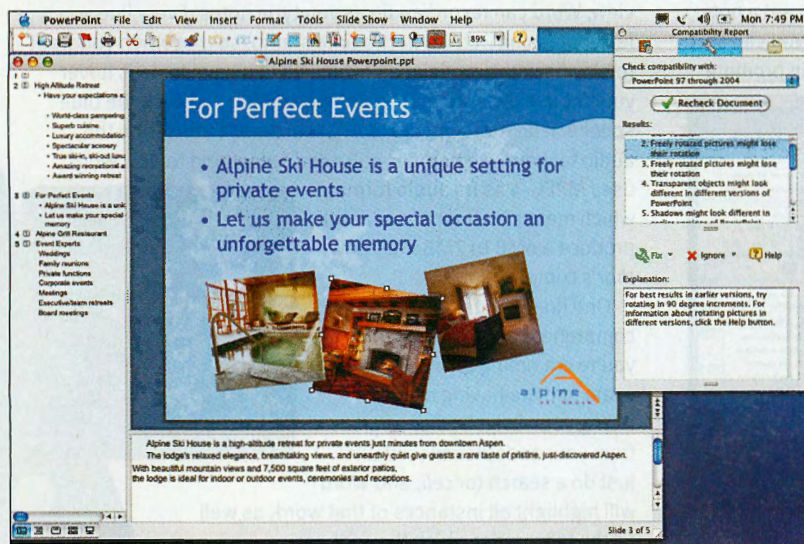
Windows as well as Office 98, 2001, or v. X for Mac.

From within Word, Excel, or PowerPoint, you can access the Compatibility Report palette via

the new toolbox (see "Toolbox," facing page).

Choose which versions of Office you want to check your document against, and Office will produce a list of elements in your document that might not make the journey correctly to another version of Office. Highlight any note in the list to find out more about the problem and—if it can—Office will offer a fix; to remedy the issue, click the Fix button. For example, if you've created a transparency effect in PowerPoint, some older versions of Office (such as Office 98 or 2001 for Mac) can't display it. Clicking Fix will remove the effect.

The Compatibility Report feature tells you if your doc won't fly in other versions of Office. If only finding a spouse were this formulaic.



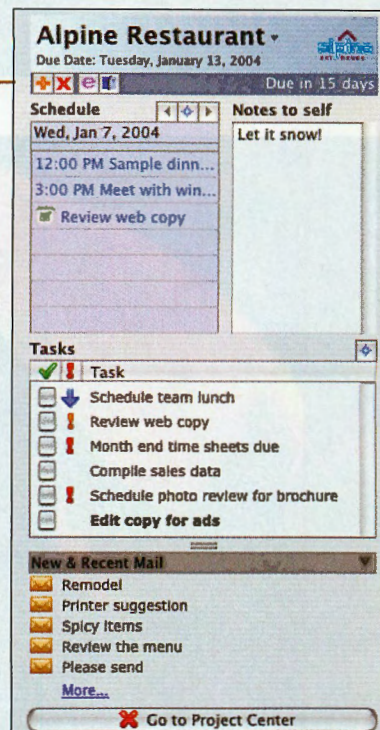
Toolbox

Move over, Formatting Palette—there's a new palette in town.

The toolbox palette floats alongside the Formatting Palette (if you want it to) in Word, Excel, and PowerPoint, and houses all the new Office-wide features we've been spouting about: Scrapbook, Compatibility Report, and Project Center. For example, when you view the Projects palette, you'll see an overview of your project, including the day's schedule, your to-do tasks, and how many days until it's due. Your deadline is literally staring you in the face.

Speaking of palettes, the Formatting Palette can now pull a David Copperfield—nearly—and turn transparent (but not invisible). In fact, you can customize the effect by setting the amount of time before it turns transparent, as well as the level of transparency (it can go to 90 percent transparent).

Here the new toolbox is displaying the Projects palette. Looks like someone better get movin'.



THE BUZZ

We can't wait to ooh and aah at the Formatting Palette's new transparency feature.

THE BUZZKILL

While we like the new features the toolbox houses, we're not psyched about having yet another window open on our desktop. But of course, we can choose not to display it.

Excel's Page Layout View

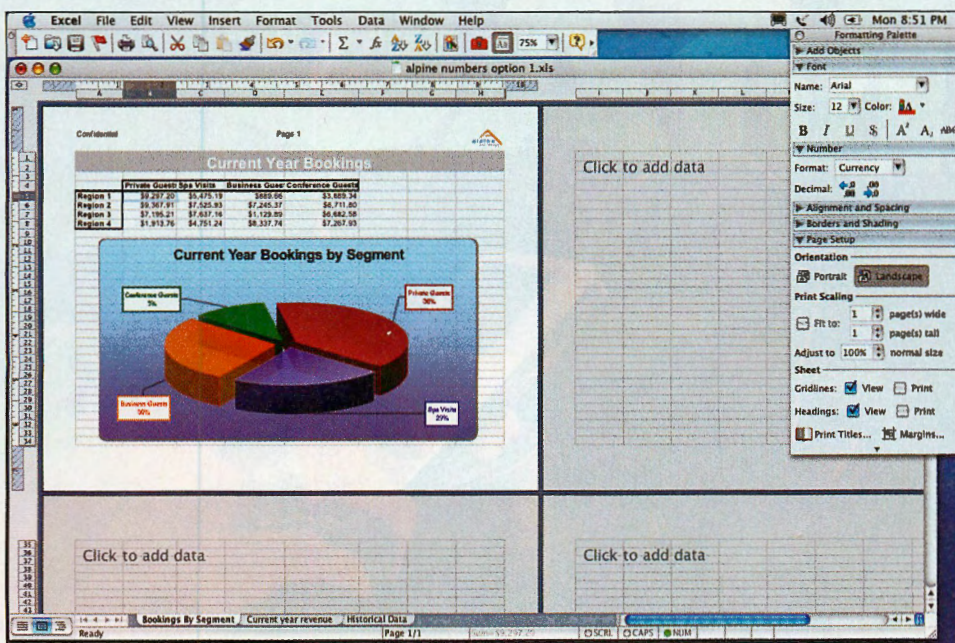
You'll never look at spreadsheets the same way again.

All you Excel users, we know you're into pain—otherwise why would you like spreadsheets so much? Fortunately (or unfortunately for you masochists), Microsoft has taken some of the pain out of spreadsheets with its new Page Layout view (a Mac-first feature). Instead of having to guess at how your spreadsheet will turn out when you print it (then cursing like Eminem when it prints out with the last two columns on a separate

piece of paper), you get what you see in Page Layout view.

Page Layout view lets you see the layout of your spreadsheet and exactly how it will print out, which is useful for, say, tweaking the size of columns so your whole spreadsheet fits on one page and thus avoiding that awkward page break. In Page Layout view, you can manipulate margins, headers, footers, and page count onscreen, and the Formatting Palette offers a number of

page setup options. For example, you can set your document to portrait or landscape, choose to view or print gridlines, or set your worksheet to fit on a single page—and you can see the results in real time.



THE BUZZ

You'll appreciate the ability to view and manipulate your spreadsheets much more easily. Plus, think of all the beautiful trees you'll save now that you have more control over the printing of spreadsheets.

THE BUZZKILL

It feels more like an overdue addition than a killer feature. But we're just nitpicking.

Cathy Lu is a typical grumpy editor and won't be satisfied until Office can write this article for her.

Finally, spreadsheets appear onscreen the way they will when you print them.

PARTY with your MAC

 ON THE
DISC
BarWare Deluxe 2.5
and Easy Card 2.1.1



Relax. The next time you throw a party, let your Mac do the entertaining.

Throwing a brilliant party—the kind people rave about for weeks afterward—is hard work. Drinks need to flow, tunes need to play, and partygoers need to mingle. To pull off this daunting task, you need just the right mix of friends, drinks, food, music, mood, and Macs—yes, Macs. Recently, we threw a bash at the fabulously hip San Francisco loft Unified Design Labs (www.unifieddesignlabs.com), a design studio with a love for loud music and graphic communication. We rolled in our Macs, iPods, digital cameras, photo printers, games, and other gadgets to amuse, wow, and otherwise entertain our friends as they partied the night away. Here's how we pulled it off.

by Narasu Rebbapragada
photography by Mark Madeo



Two little iPods can make one big sound.

The iPod DJ

Nothing gets a party going like a DJ spinning fat beats on a fat sound system. But getting those boxes of vinyl records and CDs to your event can be a heavy-lifting

nightmare. Being averse to hard manual labor, we ditched that tonnage for the portability of two iPods. Similar to how a DJ spinning vinyl would mix tracks from records spinning on two turntables through a mixer, our digital DJ mixed tracks from his two iPods

using the same type of multichannel stereo-input mixer a vinyl DJ would use—we used an Allen and Heath Xone 32 (\$1,099, www.topdigger.com/alandhexoscm.html). We then fed the music through a Peavey QW 118P (\$1,599.99, www.peavey.com) 18-inch powered subwoofer and two Peavey Impulse 1015P powered speaker enclosures (\$949.99 each) to produce mammoth, club-style sound. If you don't have a sound system as sick as this, fret not—this setup will work on whatever system you plug your four-channel (or two stereo-channel) mixer into.

How much music you bring is up to you. While a 40GB iPod can hold up to 8,000 5MB MP3 files, standard 128-Kbps encoded MP3 sounds like crap on a pro sound system. You're better off using CD-quality AIFF files—they consume about 25MB each but sound much better.

Another tip from the pros: Organize your tunes into Playlists and practice before your Bacchanalia—when mixing tracks on iPods, you can't control pitch or match beats the way you can with CDs and vinyl. Plus, a word to the wise from DJ Richie Hawtin, aka Plastikman: Use your thumbs, not your fingers, to scroll through songs—it's easier (see "Spin Different," Oct/03, p10).

3 Digital 0 Photo Booth

How many times have you gone to a party and—D’oh!—forgotten to bring your camera? Anticipate your guests’ amnesia and create your own cheesy photo booth.

To start, set a couple of digital cameras on a table so guests can capture your party’s most epic moments. We went with two compact, stylin’ snappers: Sony’s 2-megapixel Cyber-shot U (\$249.95, www.sonystyle.com) and Canon’s 4-megapixel PowerShot SD10 Digital Elph (\$449, www.powershot.com). The Cyber-shot U, although gorgeous in orange, silver, or black, is a bare-bones point-and-shoot with no zoom. We prefer the PowerShot SD10—which comes in bronze, white, black, or silver—for its 5.7x digital (sorry, no optical) zoom and more-intuitive interface (especially helpful after Martini number four).

Now, how annoying would it be if all your guests called you up the next day asking for copies of those photos? Very. We preempted potentially annoying phone calls by providing USB cables so they could download photos onto a couple of iPhoto-equipped PowerBooks. Tip: To help your Mac-challenged revelers, make sure iPhoto is set to launch when a camera is plugged in. Launch Image Capture (in your Applications folder); go into Image Capture > Preferences; click the Camera tab; and in the When Camera Is Connected, Open pop-up menu, select iPhoto.

We also provided Canon’s i70 Color Bubble Jet Printer (\$249.99, www.canon.com) with photo paper so guests could print out and take home photos.

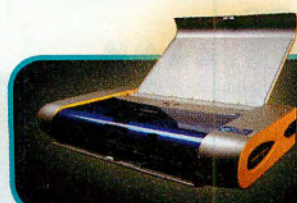
This portable four-color USB printer outputs crisp borderless 4-by-6-, 5-by-7-, and 8-by-10-inch prints. Remember to stock up on extra ink cartridges (one black, one three-color) so that late-night prints don’t turn a lighter shade of pale.

If you want to instill rabid party-envy, set up a videoconference with friends who couldn’t make it to



Let your friends take a copy of their “Cheese!” home with them.

your affair. Using our print-station PowerBooks, we set up Apple’s iChat AV video-conferencing software (\$29.95 in Jaguar and free in Panther, www.apple.com) and a couple of iSight Web cams (\$149). We attached one iSight to the top of our 17-inch PowerBook, and the other to an oh-so-au-courant, bendable MacMice SightFlex iSight stand (\$29.99, www.macmice.com), which we plugged into our FireWire port.



Canon’s i70 Color Bubble Jet Printer.



Canon’s PowerShot SD10 camera.



Sony’s Cyber-shot U camera.

The Chill Space



Cool hardware gives your guests' eyes, ears, and brains a break.

Any party worth its *New York Post* page-six write-up has a chill space—a room or corner where tired partiers go to unwind. To create a serene environment worthy of chill, you need relaxing tunes, calming eye candy, a mind-numbingly addictive activity, and a laidback host. Having been there, done that, seen it all and lived to tell about it, our old 350MHz “Sawtooth” Power Mac G4 volunteered for the job. First we outfitted our ol’ buddy with the VGA version of the 17-inch Formac gallery 1740 display (\$599, www.formac.com), which has a similar design to the Apple Cinema Display but plugs into the old-fashioned VGA port on our trusty G4. Next, we connected

Auravision’s eluminX USB keyboard (\$79.95, <http://auravisionllc.com>), which glows an eerie purplish-white for a little extra cool. (On this PC-centric keyboard, the key with the Windows icon functions as the Command key.)

To complete the look, we hooked up Harman Multimedia’s spacy-looking JBL Invader 4.1 surround-sound system (\$179.95, www.harman-multimedia.com). When plugged directly into a Mac’s speaker jack, the Invader’s 40-watt speakers and subwoofer interpolate the Mac’s stereo output into multimedia surround sound. For even better sound, plug the Invader setup into a multichannel-sound device such as M-Audio’s USB Sonica Theater (\$119.95, www.m-audio.com).

We constructed the jukebox itself in iTunes by loading four hours of MP3s into our iTunes Library,



17-inch Formac gallery 1740 display.



Epson's PowerLite S1 projector.



Auravision's eluminX USB keyboard.



Harman Multimedia's JBL Invader speaker system.

sorting them into Playlists labeled Relaxing, Very Relaxing, and Xanaxed for our guests to choose from. Selecting Repeat All from the iTunes Controls menu ensured the music would continuously loop and not disrupt our eye candy: the third-party iTunes Visualizer plug-in Kaleidostrobe X (free, www.lasi.org).

We projected these visuals on a white wall using Epson's PowerLite S1 (\$999, www.epson.com). This 1,200-lumen projector, the least expensive and dimmest in Epson's multimedia projector line, was

still plenty bright when hooked up to our Mac via VGA. Since our 17-inch Formac gallery display used up the one and only VGA port that came with our aging G4, we added a Radeon 7000 (\$129, www.ati.com) to an empty PCI slot so we could have a second VGA port for the PowerLite S1.

The final element of the chill space: a mind-numbing, addictive activity. We provided a Web surfing station on a neon-lighted Power Mac G5 (see "Pimp Out Your G5", Feb/04, p66) and pointed Safari at www.theweirdsite.com.

The Custom BAR

From Abe's Tropical Night in Hell to the old familiar Zombie, there are thousands of different mixed drinks out there, but no one ever orders anything more exciting

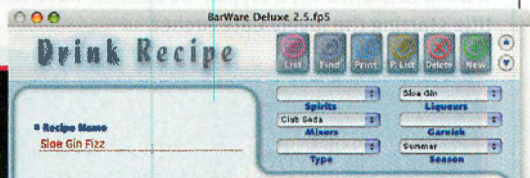
than a gin and tonic. To expand our guests' alcoholic horizons, we outfitted a bar with two iMacs (for smaller—or more sober—gatherings, one will do) and loaded them up with Digital Fried Chicken's BarWare Deluxe (\$12.95, www.digitalfriedchicken.com). One of our iMacs lounged luxuriously on Rain Design's iGo table (\$399, www.igo4mac.com), inviting people to explore the fascinating world of cocktails.

BarWare Deluxe's concept is simple. Essentially a souped-up FileMaker Pro database stocked with drink recipes, BarWare Deluxe lets you search for and browse through exotic drink recipes, such as the Havana Cocktail and the KGB, as well as old favorites like the Martini and the Cosmopolitan. Make sure your bar is fully stocked because your guests will



Drink recipes and ingredients are on the house, but BYO pickup lines.

be outraged if they desire an elixir you can't provide—in fact, after sufficient BarWare Deluxe experimentation, they may even smash things. Oh, and the software doesn't card, so make sure *you* do.



Digital Fried Chicken's BarWare Deluxe.

Rain Design's iGo table.





Game The Station

By 1:00 a.m. or so, it may become evident that the cute girl on your right likes the guy on her right, who's really interested in the guy on your left, who supposedly has a girlfriend but was really checking out the girl on your right, who just called it a night. Right? When you tire of playing these kinds of games, head over to a Mac and play some *real* games. We loaded MacSoft's Unreal Tournament 2003 (\$19.95,

www.macsoftgames.com) on an eMac because at party time we were still waiting for our copy of Unreal Tournament 2004 (\$49.95). Get out your love-life frustrations by shooting everything in sight, either in single-player or multiplayer mode (if you have an Internet connection). For console gamers who don't get the whole keyboard-gaming thing, offer a game controller such as the Gravis Eliminator GamePad Pro (\$29.99, www.gravis.com). For cordless action, go with the Logitech Cordless RumblePad (\$49.95, www.logitech.com). Note: You'll only enjoy the RumblePad's force-feedback effects if the game you're playing supports them.

If your squad's more mod than murderous, then check out MacPlay's No One Lives Forever 2 (\$49.99, www.macplay.com), a stylish '60s action-adventure title starring the lovely Cate Archer.

Logitech's Cordless
RumblePad.





Dance with your friends,
then frag your enemies.

Armed with lock-picking barrettes and exploding tubes of lipstick, Archer outclasses any Bond girl in her efforts to destroy the evil organization H.A.R.M. Archer enjoyed the power of our Power Mac G5.

Finally, there's the Pictionary crowd, who would rather debate the etymology of *bots* than, heaven forbid, frag them. (Hint: This is the horn-rimmed crew sipping cognac in the corner.) For this brainiac lot, point an Internet-connected Mac to Shockwave.com (www.shockwave.com), where free versions of word games, such as Bookworm and Word Mojo, abound. ■



MacSoft's
Unreal
Tournament
2003.

The Invite

A killer invitation is the harbinger of a killer party. Here are three easy ways to make one.

APPLE ICARDS If you're inviting a handful of guests, send personalized email greetings with Apple iCards. Use one of the six celebration-oriented designs already on the site, or upload your own picture (that option is only possible if you have a .Mac account).
free, www.mac.com/WebObjects/iCards

EVITE Evite's Web-based invitations, which also manage your guests' RSVPs, are the easiest way to invite the masses to your event and keep tabs on who's coming and who's an elitist loser.
free, www.evite.com

SCRIPT SOFTWARE'S EASY CARD

The prefab designs and images that come with this simple invitation-creation software are cheesy, but the ability to email or print your invites, along with the folding lines provided in the templates, take the guesswork out of making invites. We advise you to use your own artwork for smarter-looking invites.

\$20, <http://scriptsoftware.com>

Preventing Party Fouls

Follow these simple safeguards if you want your Mac to survive the party, the after-party, and the after-after-party.

BACK UP Back up your files before your party in case of crashes and accidental file deletions.


CREATE A NEW USER ACCOUNT

Create a new user account where your guests can create, modify, and store files. This way their documents will remain separate, keeping yours tucked away from prying eyes.

LOCK STUFF DOWN Bad eggs show up at good parties, so lock down your Macs, cameras, and iPods with security cables. Kensington has a wide variety of devices, such as the MicroSaver security cable (\$39.95 street, www.kensington.com).

PROTECT YOUR KEYBOARDS

With parties come drinks—and you know what that means. Protect your Apple Pro keyboard with the iSkin ProTouch (\$29.99, www.iskin.com), and protect your 'Books with the iSkin ProTouch PB (\$19.99).

 We still can't find News Editor Narasu Rebbapragada. We assume she's still sleeping off her excursion into BarWare Deluxe.

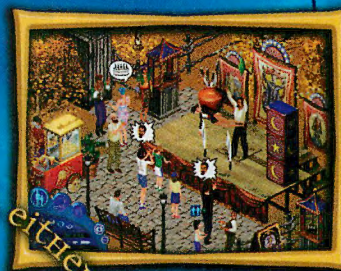
The Sims™ Makin' Magic

EXPANSION PACK*

Beware.
your sims
have magic.

add a little magic to your sims' lives. cast spells, hypnotize friends, and even turn a neighbor into a frog.

either way, the neighborhood will never be the same. but watch out, spells can go haywire if you're not careful.



Perform magic, quest for ingredients, and unlock spell recipes.



Craft charms, animate minions, and add magical decor.



*These Expansion Packs are also available:

The Sims™ Livin' Large
The Sims™ House Party
The Sims™ Hot Date
The Sims™ Vacation
The Sims™ Unleashed
The Sims™ Superstar

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*Requires a full version of The Sims™ to play.

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blown away.



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impressed.



You'll be
satisfied.



You'll be
disappointed.



You'll be
pissed off.

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Our March crop of reviews is the most superlative ever. We printed on both the biggest inkjet and the smallest laser we've seen; we finally played Halo, the most-anticipated game in Mac history; we gawked at the biggest screen ever to grace an iMac; and we even plugged the first-ever USB universal remote control into our Mac and helped it program itself to run our entertainment center. Prosumer shutterbugs might recognize the camera pictured below as Canon's Digital Rebel—the first sub-\$1,000 digital SLR camera. In the near future, we'll test another, more-expensive digital SLR, plus the coolest new gear from Mac Expo in San Francisco.

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X Compatible with
Mac OS X or later.

9 Compatible with
Mac OS 9 or earlier.



We'd spend our
own hard-earned
money on this
product.



Halo: Combat Evolved

RAUCOUS COMBAT GAME

The long and sordid origin of Halo plays out like a video game unto itself. In a nutshell, Microsoft bought developer Bungie and co-opted Halo as the flagship game for its Xbox gaming console, putting the Mac version on hold. Mac gamers feared Microsoft would abandon them entirely. If you're still crying over this nearly spilled milk, get over it: Halo's here, and it's as awesome as you've heard.

First the bad news: If you haven't bought a new Mac in the past year, you might need to evolve your system to match this game. If you've already given up and bought an Xbox, the Mac version's graphics can't compete—even when played on the current top-of-the-line Mac-compatible graphics card, the ATI Radeon 9800 Pro. Otherwise, the game's strengths—killer vehicles, brilliant pacing, smart AI, expansive levels, and a careful balance of shoot-'em-up mayhem and careful

strategizing—more than compensate.

In the single-player campaign, you're the Master Chief—the last hope for planet Earth. You're the last of your species of Spartan-II bioenhanced superwarriors, and you're leading a troop of Marines on a do-or-die mission to save humankind. And die you will—some of the missions pit you against insurmountable odds. We had to replay some missions an inordinate number of times before we could figure out the best plan of attack. Luckily, most checkpoints (places where the game autosaves your progress) are spaced so you don't have to recover too much ground. Give yourself an advantage by diligently scavenging all the stray ammo and unexploded grenades from your fallen foes and by frequently saving your game at checkpoints, using the in-game pause menu. When you come across vehicles placed seemingly at random, get aboard—they're there for a reason.



This spikey critter is actually a Hunter, one of the toughest enemies you'll face in Halo. You can take him out with a pistol if you know where to shoot—aim for the dark orange part of his back.

As you get deeper into the game, you discover that you and your enemy, the alien Covenant, face a common threat known collectively as the Flood: wild-turkey-size fleas that zombify their victims and have a taste for both human and alien blood. Everything changes when you discover the Flood—suddenly you have two enemies, and have to decide which side to target in the frequent three-way firefights.

We can't say enough about the excellent balance of fighting and strategy in this game. Firefights include brute-force combat against wave after wave of hard-dying Covenant Jackals,



COMPANY: MacSoft
CONTACT: 866-512-9111,
www.macsoftgames.com
PRICE: \$49.99

REQUIREMENTS: 800MHz G4 or faster; Mac OS 10.2.8 or later; 256MB RAM; 32MB nVidia GeForce, ATI Radeon 7500, or better video card; 1.4GB disk space

GOOD NEWS: It's finally here and it was worth the wait. Excellent pace and balance. Vehicles rock.

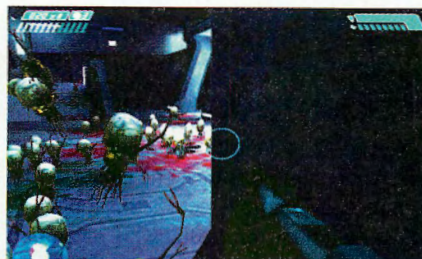
BAD NEWS: Most Macs don't have enough power to handle it. Some levels get repetitive.

MacAddict RATED
●●●●●
AWESOME

Elites, and Hunters. And that's not to mention the Grunts—they're cute and easy to kill, but they attack in swarms, and their Plasma Grenades spell certain death when the Grunts score a direct hit and the grenade sticks to you. When you get the chance, make sure to scavenge any dropped Plasma Grenades—they're highly effective against the Covenant. One grenade can take out almost any enemy, but it's not a sure bet: The Covenant fighters jump away to avoid the blast if your grenade doesn't stick to them. If it does, they usually charge and try to take you out with them.

The single-player campaign requires some exploration, but not too much. For help, you've got Cortana; your ship's onboard control program, who automatically downloads to your combat supersuit. Early in the game, she hacks into the Covenant communications network, so she can offer valuable advice, clues, and information.

Combat Evolved makes Halo more than a pure shoot-'em-up game. (You can also run over enemies in your Warthog jeep, but that's beside the point.) You have to fight smart. Choosing your weapons is key—you can only carry two at a time. Mind your ammunition clip, because reloading in the heat of battle is not fun—use the Melee attack to take out unwitting enemies silently from behind with a swing of whatever weapon you're holding. And sometimes it's good to be patient, hang back, and give the Flood and Covenant forces time to thin out each others' numbers.



These overgrown fleas spread the Flood. The good news: They're easy to kill. The bad news: They're everywhere and can make zombies out of your comrades.

we'd like to see—or rather hear—is surround sound piped out of the G5's digital-audio port, but Halo's soundtrack more than compensates. It perfectly complements the game, innocuously keeping time in the background during slower moments, then rising at key interludes. When you hear the triumphant crescendos as you approach the end of a mission or level, you'll know what we mean.

Halo isn't the end-all game—we still prefer Unreal Tournament when we need a dose of excessive, random violence and general mayhem—but Halo is an awesome single-player game, and arguably even better for team and multiplayer games. Plus, Halo's drivable vehicles break new ground and are incredibly fun, especially the high-flying Banshee and the team-friendly Warthog (see "Get In Your Hog and Drive," below). If your Mac is up to snuff, Halo is an awesome game to play.

—Niko Coucouvanis

Halo's system requirements are steep and not overstated. Our 1.8MHz Power Mac G5, with an ATI Radeon 9800 Pro video card with 128MB of DDR SDRAM, had no problems at the game's default video settings—even that machine's stock 64MB nVidia GeForce 5200 FX card did all right after we changed the default settings. (Halo crashed during startup until we turned off pixel shaders.) But the Radeon 9800 choked when we cranked up all the graphics options: Pixel and vertex shading, as well as 9x antialiasing, ain't happening on even this new generation of Macs.

Halo for Mac doesn't support gamepads, but Nostromo's n52 speedpad (*Reviews*, Feb/03, p57) worked just fine after we mapped key commands to it using either Nostromo's driver or Halo's key-setup options. What

GET IN YOUR HOG AND DRIVE

The Warthog is a futuristic marriage of Humvee and dune buggy, and provides some great ways to get your road rage on.



Teamwork Pull up to a comrade, and he'll hop in the back to operate the three-barreled machine gun. Find another friend to ride shotgun—or better yet, rocket launcher.

Back Seat, Driver When it's just you against the world, the Warthog quickly gets you from here to there. Once you're there, hop in the back and let the lead fly—the machine gun has an endless supply of ammo.



The Car Is the Weapon The Warthog can be just as lethal without a gunner. Just punch the gas and think of Lizzie Grubman and her Mercedes-Benz SUV at that night club in the Hamptons.

GoLive CS

FINALLY MATURE WEB-DEVELOPMENT SOFTWARE

GoLive is now part of Adobe's Creative Suite (CS) gang, sporting a redesigned interface that brings some much-needed sense to the program and better coding tools like Code Completion and on-the-fly style rendering. It has some handy CS partnerships, such as shared color management and Smart Objects for regulating common source files and their respective exports, and also some half-baked integrations with InDesign and PDF files that fall a bit flat.

First off, if you're a fan of GoLive's Dynamic Content module—the keys to the kingdom of database-driven

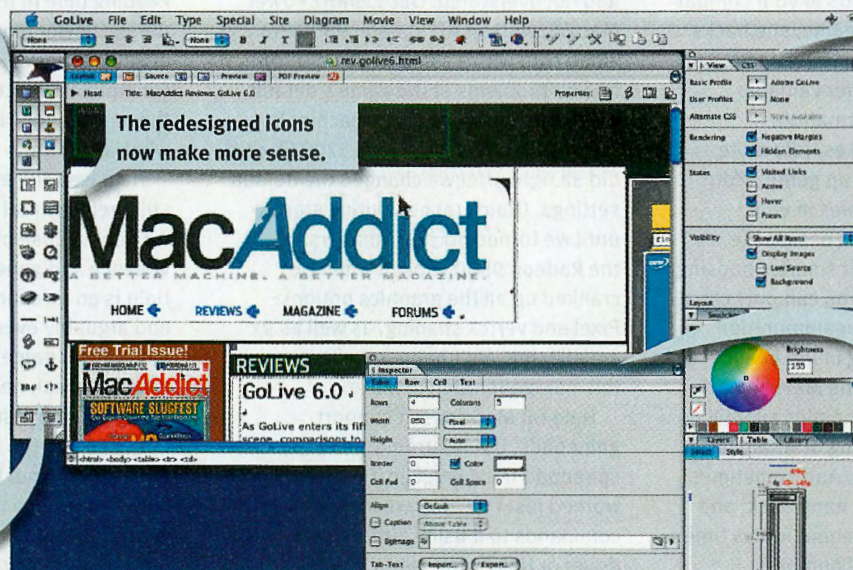
GoLive CS is a terrific improvement over previous versions. The most-noticeable improvement is the app's user interface, particularly the revamped Objects palette. The Objects palette was formerly an infernal sea of icons for inserting tables and CSS layers, QuickTime components, form elements—pretty much any element you'd use to build a Web page, including site-wide assets such as font and color sets, links, and templates. The palette's new default state appears as a vertical bar along the left side of the screen like Photoshop CS's main

for a much more flexible scheme than Dreamweaver's ornery panels.

Webheads who cut their teeth on raw HTML still demand more coder-friendliness than GoLive provides, but CS is a step in the right direction. The convenient new Code Completion feature, which assists when you start typing tags, was annoying at first but not so after we fine-tuned its vocabulary via the Tag Editor. The other big coding news is GoLive's CSS Editor: As you tweak your style definitions, you see the effects—very handy, especially if you're new to CSS. GoLive still litters your code

These icons load specific Object sets, such as Basic, Smart, Forms, Head, Frames, and Site.

Click here to revert the Objects palette to its former, more-cryptic square configuration.



Bonus! Tear out the Inspector palette from the default palette-palooza....

...so you can stretch it out and bring it up front where it belongs.

Web apps—you're in for some bad news. Adobe

unceremoniously removed the Dynamic Content module, but third-party developer Zend Technologies has stepped up with Zend Studio (\$119, www.zend.com), a plug-in for developing and maintaining PHP sites. GoLive still respects database markup in your Web pages, but it doesn't help you use it—and for that reason, many GoLive developers are sticking with GoLive 6.0.1 for its Dynamic Content support.

If you can live without the DC module,

Familiarity doesn't always breed contempt: GoLive's retrofitted Objects palette makes much more sense than the app's old Pandora's Box of icons.

toolbar. It's as icon-rich as ever, but the icons are now more intuitive, and the vertical layout just works better—plus, you can snap back to the old-style palette if you prefer or use GoLive's righteous Contextual Menu support, which includes all applicable Objects. The real coup here is that GoLive lets you drag and drop Palettes willy-nilly (you can even put them all into one big megapalette) and save custom palette arrangements (Workspaces); this makes

with proprietary elements and comments, but

you can easily strip them out when you export the site.

Print designers get more to love in GoLive CS, with onboard PDF preview and the ability to modify and re-export PDFs. The InDesign integration is a good start but still doesn't provide the push-button automation we want. InDesign has forgotten what little it knew about exporting HTML, which isn't even an option in InDesign CS. Instead, the new InDesign Package For GoLive command



COMPANY: Adobe
CONTACT: 800-833-6687, www.adobe.com
PRICE: \$399, \$169 (upgrade), \$549 to \$1,229 (with CS)

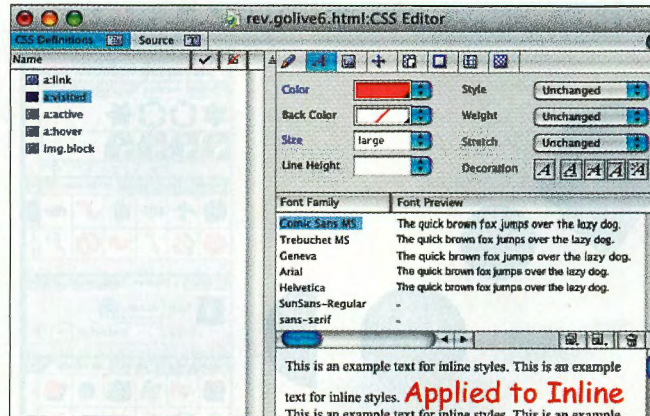
REQUIREMENTS: G3, Mac OS 10.2.4 or later, 128MB of RAM (192MB recommended), 200MB disk space

GOOD NEWS: Visual CSS authoring. Redesigned interface. Strong XML and portable-device support.
BAD NEWS: Missing Dynamic Content module. No easy way to get InDesign docs into HTML for the Web.

MacAddict RATED
★★★★★
GREAT

breaks an InDesign document down into a collection of CSS, XML, and INCD files. You can make this workable by creating templates with the styles, layout, and common elements, and then dragging in the specifics later.

Adobe's so-called Smart Objects is mainly a trap door to the Save For Web dialog used by all the Creative Suite apps to export Web-optimized iterations of larger source files. Using Smart Objects isn't very intuitive though—you have to select the Smart Objects pane of GoLive's Objects palette, then pick Smart Photoshop or one of the other Smart Object icons. Dreamweaver's source/export setup is smarter, as it defaults to the source file (or creates a new PNG source file if you don't have a designated source file) when you modify any images you've placed in Web pages. Similarly, the PDF Smart Object is of little



GoLive's WYSIWYG CSS Editor is handy and supports all of the CSS1 and almost all of the CSS2 specs.

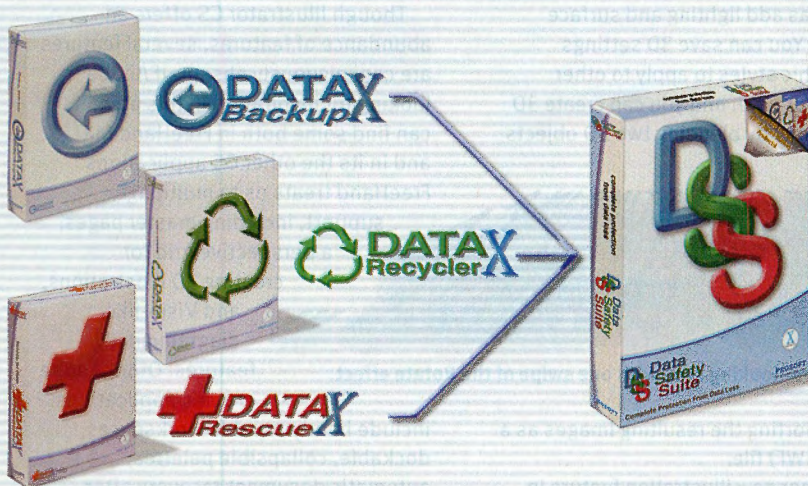
value to 98 percent of us. Like all Smart Objects, it does little more than export a GIF or JPEG image of the original, but it can be handy if you want to update the source file and have all of the previously exported instances automatically update and optimize themselves to match. GoLive tells you to create a new Target File every time you reuse a Smart Object

but fails to remind you that when you change the Source File, all of the associated Target Files will auto-update accordingly.

GoLive was surprisingly nimble on our 1.8GHz G5 with 2GB of RAM (don't laugh—Dreamweaver is intermittently dodgy on the same rig). We were also pleased to see that GoLive behaved itself on a more modest machine: a 1.25GHz PowerBook with 512MB of RAM.

Aside from the absent Dynamic Content module, GoLive CS is a strong improvement in terms of functionality, performance, and interface. Those who've had enough of Dreamweaver's increasingly finicky performance can find enough workarounds—including changing some of their own work habits—to warrant jumping ship to GoLive.
—Niko Coucouvanis

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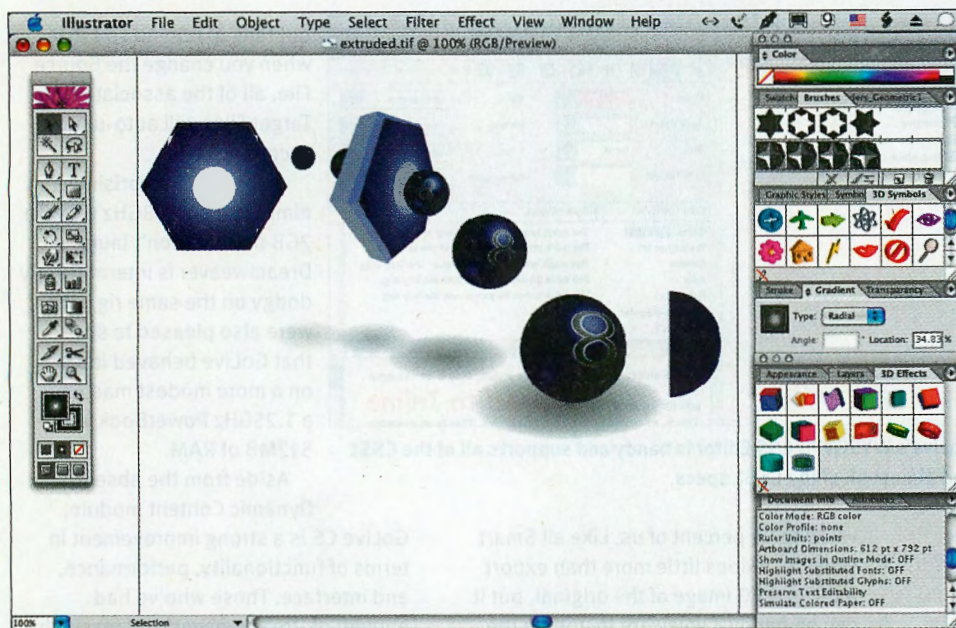


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Starting with two flat shapes, a hexagon and a semicircle, we used Illustrator CS's new Extrude & Bevel and Revolve effects to add some depth and dimension.

as graphic styles, and you can blend two objects with scribble effects and export the resulting artwork as an SWF animation. Of course, Illustrator isn't as savvy with SWF as Macromedia's Flash is, but it works surprisingly well for basic animations.

Illustrator CS includes several typographic enhancements, including character and paragraphs styles, full support of OpenType fonts, optical kerning, optical margin alignment, automatic ligatures and smart quotes, a WYSIWIG font menu with grouped font families, and paragraph-based text composition.

The 200 included templates provide a quick way to get started with typical projects. You get blank templates for common documents such as business cards, as well as fully designed ones for brochures, annual reports, newsletters, and so on. Also new in Illustrator CS is the option to save your own files as templates.

Though Illustrator CS offers an abundance of features, several features are conspicuously absent. If Adobe is looking for inspiration in this area, it can find some both in FreeHand MX and in its the other CS applications. FreeHand treats us to multipage support, including master pages, a perspective grid for creating 3D illustrations, and Visio-like diagramming features. Other Adobe graphic applications

include handy savable workspaces; dockable, collapsible palettes; automatic document recovery after a crash; and live redraw as you drag an object. We may be spoiled, but the above-mentioned shortcomings bar Illustrator from greatness.—John Cruise

Illustrator CS

UPGRADED ILLUSTRATION SOFTWARE

Illustrator CS, part of Adobe's new Creative Suite bundle, is a full-version upgrade with an impressive set of illustration, typographic, and productivity features for print and Web design—but it still hasn't caught up with its main competition, Macromedia's FreeHand MX (see *Reviews*, Jun/03, p49). Illustrator's new 3D tools provide some cool new capabilities, but overall, there's plenty of room for improvement.

Sometimes a single feature can be worth the price of an upgrade, and such is the case with Illustrator's new 3D capabilities. Adobe has essentially rolled Dimensions, its 3D drawing program, into Illustrator CS. For example, the new Extrude & Bevel effect adds a 3D appearance to a two-dimensional shape by adding a top, a bottom, and sides, and by extending the surfaces backward into space—it's especially handy for creating cube-like shapes and 3D type. For cylinder-based shapes (such as bottles and cans) and spheres, the Revolve

effect works somewhat like a wood lathe by revolving objects around a central axis. The Rotate effect lets you tilt an object in space so that the object appears 3D.

For each of the 3D features, you have the option to map artwork onto surfaces, as well as add lighting and surface effects. You can save 3D settings as graphic styles to apply to other objects or type, and you can create 3D animations by blending two 3D objects



We created this Star Wars-looking type with one swipe of the Rotate effect.

and exporting the resulting images as a Flash (SWF) file.

Another new illustration feature in Illustrator CS is the Scribble effect, which lets you add a loose, freehand appearance to artwork. As with 3D effects, you can save scribble effects



COMPANY: Adobe
CONTACT: 800-833-6687, www.adobe.com
PRICE: \$499, \$169 (upgrade), \$999 (with CS), \$549 (upgrade with CS)

REQUIREMENTS: G3, Mac OS 10.2 or later, 192MB RAM (256MB recommended), 470MB disk space

GOOD NEWS: Cool new 3D effects. Improved typography features.

BAD NEWS: Lacks features available in FreeHand MX and other Adobe CS applications.

MacAddict RATED

SOLID

1.25GHz iMac

20-INCH LCD IMAC G4

"Mommy, mommy, buy me one of those!" That's what the greedy little kid in you will shout when you first set eyes on the new 20-inch iMac G4. Our inner child certainly reacted that way—too bad that kid's not Richie Rich. The 20-inch iMac has a humongous LCD display, and at \$2,199, it has a price to match. But if you've got the cash, get this iMac. After a few days of working on its bright, evenly lit 20-inch display, going back to a 15-inch iMac was like stepping out of a Hummer and into a Ford Focus.

The performance of the 20-incher is identical to that of the current 17-inch iMac: snappy. Both include a 1.25GHz PowerPC G4, a 167MHz system bus, and PC2700 (333MHz) DDR SDRAM.



After gazing into the wide-open spaces of this display, anything smaller seems positively puny.

That's the good news. Less-impressive components include a meager 256MB of that RAM, and a video subsystem based on the nVidia GeForce FX 5200 Ultra, a graphics processor that can most kindly

be described as decidedly consumer-level—don't expect stunning high-speed gameplay. Also, don't go looking for FireWire 800 ports, an L3 cache, or Gigabit Ethernet—you won't find them.

The 20-inch iMac is an iLife companion, not a professional content-creation platform like the Power Mac—it comfortably handled iMovie, iPhoto, and iDVD projects in our testing. If you're simply looking for the best home computer money can buy, the 20-inch iMac won't disappoint, although we do recommend getting one that has a 512MB DIMM preinstalled. When your wallet recovers from the shock, you'll be able to add an additional user-installable 512MB SO-DIMM to bring the iMac up to its full 1GB RAM capacity.—Rik Myslewski



COMPANY: Apple

CONTACT: 800-795-1000 or 408-996-1010, www.apple.com

PRICE: \$2,199

SPECIFICATIONS: 1.25GHz PowerPC G4

processor, 256MB PC2700 (333MHz) DDR SDRAM, 80GB Ultra ATA/100 hard drive, SuperDrive, 64MB nVidia GeForce FX 5200 Ultra

GOOD NEWS: Humongous, bright LCD display. Fast.

BAD NEWS: Expensive. Low stock RAM.

MacAddict RATED



Harmony Remote SST-659

QUIRKY UNIVERSAL REMOTE CONTROL

As most of us don't have either a doctorate in minutiae or a case of severe anal retentiveness, the very thought of programming a universal remote to control all of our AV gear seems absurd. Then came the Harmony Remote, which essentially programs itself via your Mac and an online database of component controls. Alas, even when packed with data, the device still befuddles us.

Once you've installed the included software, you can simply plug in the USB cable and log on to the company's Web site, where you specify the devices you own and load the appropriate instructions into your remote. Harmony maintains a huge database of codes for every conceivable component—a few were incorrect, but Harmony updates the database frequently.

The initial setup is easy but can take ages, as the software makes you decide which component controls what. For example, do you want to watch DVDs on your Xbox or on the component DVD player? You can also download three days' worth of program listings to display on the Harmony's backlit LCD.

Where the unit stumbles is in its insistence on valuing simplicity over detail. There simply aren't enough buttons on the remote to do all the things you'd like to. It's difficult, for example, to set up a way to switch between video signals without activating the associated



Programming this remote is easy—but you still have to figure out how to use it.

components. And if the remote gets confused (and it often does, thanks to vagaries in the infrared line of sight), you may be forced to power down all your components and start them up again to make sure everything's on that's supposed to be on. After you get used to the quirks,

it's a serviceable remote, but it failed the significant-other litmus test. Ours was infinitely more confused by the "simple" remote than by the bucket of custom devices it replaced.

—Frank O'Connor



COMPANY: Harmony

CONTACT: 905-273-4571 or 866-291-1505, www.harmonyremote.com

PRICE: \$199

REQUIREMENTS:

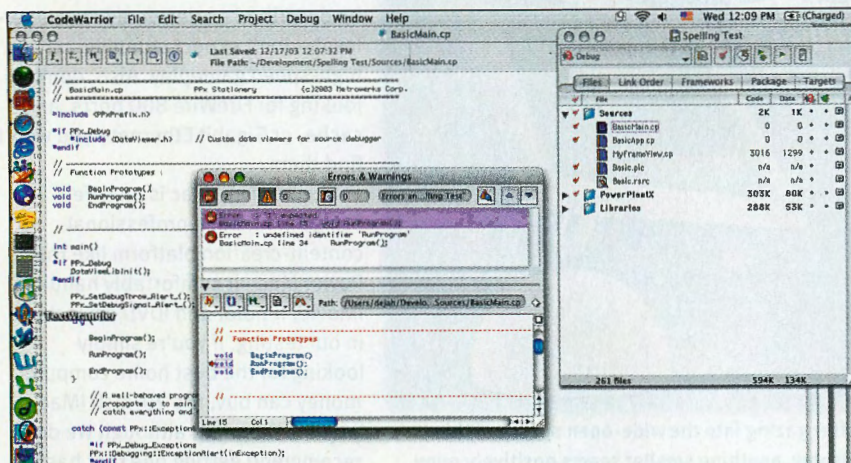
USB-equipped Mac, Mac OS 10.1.4 or later, Internet access

GOOD NEWS: Controls all your AV gear. Web site has specs for an enormous number of devices.

BAD NEWS: Not enough button flexibility. Remote can become confused.

MacAddict RATED





CodeWarrior Development Studio 9

SOLID APPLICATION DEVELOPMENT ENVIRONMENT

We believe Metrowerks when it claims that 90 percent of commercial Mac developers use CodeWarrior. Prior to the release of Mac OS X with its included Developer Tools, choices for casual Mac OS developers were limited. CodeWarrior's target market is the big leagues—Adobe, Macromedia, Corel, and so on. Are you in that group? We didn't think so. But don't fear CodeWarrior—some small developers, such as SlashMUD and MacNAME, use CodeWarrior, as does a fair share of the educational market due to the awesome student discount.

CodeWarrior has a lot of things going for it other than sheer momentum. Its integrated development environment (IDE) is tightly wound. You can bypass the built-in editor for one that suits your fancy. You can use any text editor that supports certain Apple Events. BBEdit is the standard, but others—including SubEthaEdit (formerly Hydra), Nisus Writer Express, and even Microsoft Word—work in a pinch. TextWrangler's docs don't mention CodeWarrior support, but it worked for us. XCode is supposed to work, but the street dirt says it doesn't work all that well.

Depending on which version you buy, you can write software for OS X, Classic OS, and Windows. One caveat—don't expect to write one set of API code for both Windows and Mac OS. CodeWarrior supports MFC (but not NET) for writing Windows apps and PowerPlant, Carbon,



Creating a project brings up a confusing number of options.

Cocoa, plus Toolbox for Mac OS X and Classic. You can keep the Windows and Mac versions' code together, but they don't share the same code base. CodeWarrior supports C, C++, and Objective C, but not Java, though the academic learning edition does offer

Still the king of commercial software development, CodeWarrior isn't pretty—but 800-pound gorillas rarely are.

Java support. If you want to program for embedded systems or a handheld device, tough luck—those development tools only run on Windows, even though CodeWarrior started on the Mac.

CodeWarrior ships with decent online documentation in HTML and PDF format. Printed manuals cost a mint, so get used to reading online—and get ready to wait, as it takes a while for the table of contents to load. Fetch a cup of coffee while the search frame loads. Make a PB&J with the crusts cut off while the program actually searches. And choose your search terms wisely. Sometimes you get good results, sometimes you get wildly useless ones. We wish Metrowerks would add keywords to the docs' HTML to give the search functions a bit more accuracy or at least some speed.

As far as new features go, this version makes small improvements to PowerPlant, the Mach-O (OS X only) linker, and the C and C++ standard libraries. These under-the-hood changes are supposed to result in faster build and compile times. CodeWarrior can also debug OS 9 apps remotely, so you can run and develop in OS X on one machine and debug the OS 9 version on a networked computer running OS 9. The other enhancements are primarily cosmetic tweaks. CodeWarrior added support for Objective-C in version 8; version 9 adds code completion in the internal editor. Packaging (exporting) the finished app is slightly easier, as the visual display is no longer hidden.

All in all, CodeWarrior remains a competent application, though the latest version isn't exactly a must-have upgrade. It's certainly the dominant IDE, but it's not the only one. For the high end of the market, CodeWarrior is a very good solution. Students should leap at the chance to buy the academic version. For soloists and hobbyists, CodeWarrior is definitely overkill, though nice if you've got money to burn.—Mary E. Tyler



COMPANY: Metrowerks
CONTACT: www.metrowerks.com
PRICE: \$399 to \$599 (depending on supported output), \$199 and up (upgrades), \$59 (academic V4)

REQUIREMENTS: G3, Mac OS 10.2 or later, 128MB RAM, 800MB disk space

GOOD NEWS: Insanely powerful. Still the industry standard.
BAD NEWS: No Java. Weak help. High price. No printed reference.

MacAddict RATED
SOLID

Dungeon Siege

FAST-MOVING ROLE-PLAYING GAME

Say goodbye to the role-playing-game traditions of chronic delay and irritating loading screens. *Dungeon Siege* brings you a continuous, seamless 3D world with instant travel between levels. Sound too good to be true? It gets better. This medieval hack-and-slash RPG is beautiful to behold, packed with monsters, magic, and nonstop action—it'll keep you battling evil hordes into the wee hours of the morning.

The storyline isn't *Dungeon Siege*'s strong point—it's all too familiar. You find yourself in a generic fantasy kingdom called Ehb, full of sorcery, gorgeous scenery, and invading monsters. You're a lowly farmer, tilling the soil, until marauding nasties descend upon you, and you learn that your poor kingdom is suffering a deadly onslaught of evil. It's up to you to venture forth and save the kingdom, killing bad guys and uncovering clues to the invasion as you go.

OK, so you've heard all that before.



Forget the story and revel in the journey. You start with relatively little—a rake,



A trio of skeletons meets a fiery death in a battle against four team members.

a hoe, and maybe a club. As you fight your way through the kingdom, you loot weapons and armor, collect gold, and raise your character's power levels. You can explore, interact with nonplaying characters, take on side quests, and fight—and oh, how you'll fight: against spiders, skeletons, wolves, giant worms, and dragons.

Other warriors join you along the way. You can build a party of up to eight characters (melee fighters, archers, spell casters)—some fight for free, others for pay. You can even take on a pack mule to haul your equipment and loot, although mules count as members of your party of eight—and they don't fight. New members of your team develop the same way as you do. You don't amass generic experience points in this game. Instead, you improve and grow according to the skills you use the most. Fight with swords, and you gain strength. Use ranged weapons, and your agility climbs. Cast spells, and you get smarter.

Dungeon Siege is easy to master, as all navigation and attack commands are mouse-managed. A simple point-

and-click takes your party anywhere you want it to go, so you can forget about learning how to move and instead concentrate on strategy. Monsters get tougher as you gain experience, and they come in larger groups, so strategy lesson number one is to save often.

Dungeon Siege is a delight for the eyes. The scenery is varied and lushly rendered. You'll pick your way through catacombs and ice caves, and wander through forests, jungles, deserts, and snowy highlands. The backgrounds are bold and beautiful, and the animations are realistic—all the details are there. Trees sway in the wind. Water ripples. Light and shadow play across the screen. The battle action and spell effects will keep you enthralled.

There is much to like about this game. The problem, if there is one, is that the story is largely linear. You can go on side quests and explore unusual areas, but to win, you must move from point A to point B, then point C, and so on. You won't gain anything by backtracking.

But despite the weaknesses of its story, *Dungeon Siege* is a polished gaming experience with easy, streamlined controls and enough addictive action to please anyone.

—John Lee

Dungeon Siege monsters include dragonlike creatures dwelling among lily pads in swamps.

COMPANY: MacSoft
CONTACT: 763-231-8100,
www.macsoftgames.com
PRICE: \$29.99

REQUIREMENTS: 450MHz G3
or faster, Mac OS 10.1.5 or later,
256MB RAM

GOOD NEWS: A visual knockout. Easy-to-use controls. Wall-to-wall action. A joy for both casual and hard-core gamers.
BAD NEWS: Tired storyline. A tad too linear.

MacAddict RATED
GREAT

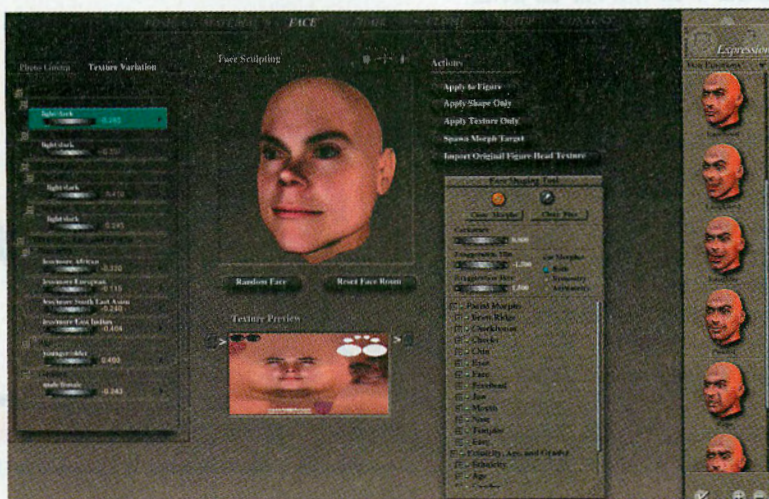
Poser 5

FULL-FEATURED 3D MODELING SOFTWARE

While most categories of software have multiple players, the realm of artificial human creation really has only one: Poser. If you want to try your hand at working with synthesians, turn to Poser to populate your screen with pixelated people.

Poser is both fun and daunting to master. A distinctive and sometimes overwhelming visual interface (organized by function into metaphorical rooms) attempts to streamline the inherent complexities of creating and manipulating the human form, both in terms of appearance and behavior. For the most part, Poser is successful at making complex character modeling and animation tasks fairly straightforward. Unlike a lot of 3D creation tools, Poser makes it easy to quickly whip up an amazingly detailed and good-looking synthetic human without too much effort—though the depth of access to technical minutia makes us want two interface modes: Standard and Insane.

The easiest way to get to work in Poser is to draw upon its vast library of



Poser 5 brings yet more face-sculpting capabilities, as well as a Random Face button and image importing.

templates, including a healthy selection of male and female figures with different degrees of detail and combinations of physical attributes. Unlike Barbie and Ken, these digital dolls are indeed anatomically correct (there's a Genitalia menu item for instant neutering), including extensive muscular dynamics. New to version 5 is an extensive Cloth simulation, which yields realistic visual results, folds and all. Animate a gal in a skirt (or a dude in a kilt), and you'll be amazed as the cloth sways like it would in real life.

Poser 5 has a bunch of new rooms, which radically extend the depth of surfacing and physical dynamics available in previous versions. The Hair room governs extensive detail, down to the amount of curl, clumpiness, or kink. Once you've picked a 'do, proceed to the Face room, where you can try out different combinations of

features. If you're creating a crowd, click the Random Face button for instant random faces, or bring in your own picture to create a Mini-You. The Surface room delivers one of the most powerful texture-mapping interfaces we've seen in any 3D app—it's an extensible, nested visual-component flowchart encompassing procedural 3D textures like stone and wood, mathematical functions, any picture

or movie file, and more. It's as scary as it sounds, but texture geeks will go wild. One big gripe: You can't zoom in or out of Surface diagrams—a major drag when editing complex textures.

Poser's extensive IK (inverse kinematics) engine makes posing and animating characters nearly automatic—when you move a hand, the arms and shoulder react accordingly. The Walk Designer is fun and interactive—use it to instantly move from a slow shuffle to a downright saucy swagger. The extensive Timeline permits painstakingly precise motion design with minimum fuss. The newly added Firefly render engine delivers surprisingly decent results, and there's even a direct Flash renderer for Web output.

Our main beef with Poser is that it has only a single Undo level, a glaring limitation that will definitely frustrate serious artists and animators—and it's enough for us to knock Poser's rating down a notch. This aside, Poser represents an amazing bargain for the money, is as deep as an ocean, and provides the only way to whip up a crowd of people who don't expect you to feed or pamper them.—David Biedny



In Poser's new Hair room, styles from Mohawks to Afros are only a click away, giving you a degree of control that would make Vidal Sassoon jealous.



COMPANY: Curious Labs
CONTACT: 831-462-8901,
www.curiouslabs.com
PRICE: \$249; \$89 and up (upgrades)

REQUIREMENTS: 500MHz G3,
Mac OS 10.2 or later, 256MB RAM,
500MB disk space

GOOD NEWS: Exhaustive character modeling and animation tool set. Excellent IK implementation.
BAD NEWS: Single level of Undo. Nonstandard interface sometimes overwhelming.

MacAddict RATED
○○○○○
SOLID

C-5060 Wide Zoom

WIDE-ANGLE 5.1-MEGAPIXEL DIGITAL CAMERA

The 5.1-megapixel Olympus C-5060 Wide Zoom can be a lifesaver if you need to, say, cram your extended family into a Grand Canyon vacation photo without backing off the edge of a cliff. Wide open, its field of view includes about 20-percent more area than the wide-zoom settings found on most digicams. You'll also get greater depth-of-field, so more of your image will stay in focus from near to far. The 5060's other gee-whiz feature is a multiangle LCD monitor that flips up above the camera instead of out to the side like the LCDs on most digicams.

Dedicated function buttons abound on the C-5060; you won't have to dive into the camera's menus very often. The downside of this is that some functions require pressing multiple buttons simultaneously, which can be awkward. But the camera's preset modes—such as portrait, sports, landscape, and landscape-with-people-in-the-foreground—are simple and accurate.

As with most zoom lenses, the C-5060's maximum aperture gets larger as you zoom out. At its full telephoto setting of 110mm (35mm equivalent), the aperture is f-4.8; at 27mm, the aperture improves to f-2.8—great for low-light photography. The minimum aperture is f-8 and shutter speeds range from 2 minutes to 1/4,000 second, depending on the mode you choose. You can choose from among nine image resolutions and then select RAW, TIFF, or one of several JPEG compressions that will let you record between 8 and 331 shots on the supplied 32MB xD card. Good news: There's also a slot for Type I

and Type II CompactFlash cards.

The camera's Li-Ion battery kept pumping out power—we shot 200 pictures during a 3-hour shooting session using the LCD monitor and flash about half of the time. Shot-to-shot time was about a second and shutter lag was minimal. Image quality and color fidelity were superb under all lighting conditions—from interiors that required long exposures to bright

printable images even when shooting up to 15 feet from the subject; there's also a shoe for an external flash.

Unfortunately, the C-5060's interface can be confusing. The menu system is somewhat scrambled, the on-off switch is a bit too small, and the four-way rocker switch isn't



The C-5060 (above) produced some of the sharpest photos we've seen from cameras in its class. With the camera resting against a tree trunk, every element came out sharp—from a few inches to infinity (see top left). The cam's wide-angle lens created distortion and cool visual effects when tilted or used for close-ups (see bottom left).

and higher-contrast sunlit scenes.

Other perks include sequential shooting up to 4 fps; auto bracketing to record different exposures of the same scene; video out (NTSC and PAL); noise reduction; a histogram to analyze exposure; an illuminator for low-light focusing; movies with sound; a supermacro setting for close-ups 1.2 inches away; and aperture, shutter, and manual priority modes. If you use the flash, you can adjust its reach—we got

high enough—we pressed the OK button at its center prematurely several times. It's also annoying that you have to turn the dial while pressing a button to trigger some functions.

The C-5060 is an updated, wider-angle version of the C-5050, a camera used by many pro photographers to shoot pictures for the book *America 24/7* (the results were awesome). If you can afford this handsome black beauty, buy one. You won't regret it.—Arthur H. Bleich



COMPANY: Olympus
CONTACT: 800-347-4027,
www.olympus.com
PRICE: \$699

REQUIREMENTS: USB-equipped
Mac, Mac OS 8.6 or 10.1 or later

GOOD NEWS: Generous zoom range. Awesome multiangle LCD monitor screen. Remote control included. Takes add-on lenses.
BAD NEWS: Onboard buttons and switches awkward to use. Unintuitive menus.

MacAddict RATED

GREAT

CAMERA PHOTOGRAPH BY MARK MADEO; OTHERS BY ARTHUR BLEICH

EOS Digital Rebel

NOISE-FREE 6.3-MEGAPIXEL DIGITAL SLR CAMERA



The bar has been raised, but it won't hit you in the pocketbook. If you're eyeing one of those fancy-shmancy, prosumer digital cameras, take note: You can get a digital SLR (single lens reflex) for about the same price. At a mere grand, Canon's Digital Rebel, an SLR based on Canon's excellent EOS 10D camera, has an impressive price point. After trigger-fingering through hundreds of shots, we found out it's also an impressive camera.

Like the higher-end EOS 10D, the Digital Rebel uses a 6.3-megapixel CMOS sensor instead of a CCD to capture images. The big advantage of CMOS is that it practically eliminates noise (random pixel artifacts) and blooming (when light leaks into surrounding areas). In fact, the Digital Rebel doesn't even feature noise reduction—it doesn't need it. Our RAW and JPEG photos (no TIFF support) were virtually noise-free, though the same can't be said of our celebratory hoopla.

Unlike the EOS 10D, the Digital Rebel's body is made of plastic. While this makes the camera lighter, it also cheapens its feel. Paranoid about dropping it, we harnessed the Rebel with the camera strap, but the nonswiveling strap eyelets led to constant fuss over untwisting it. Still, the camera felt good in our hand, and its controls were easy to work with. The 1.8-inch color

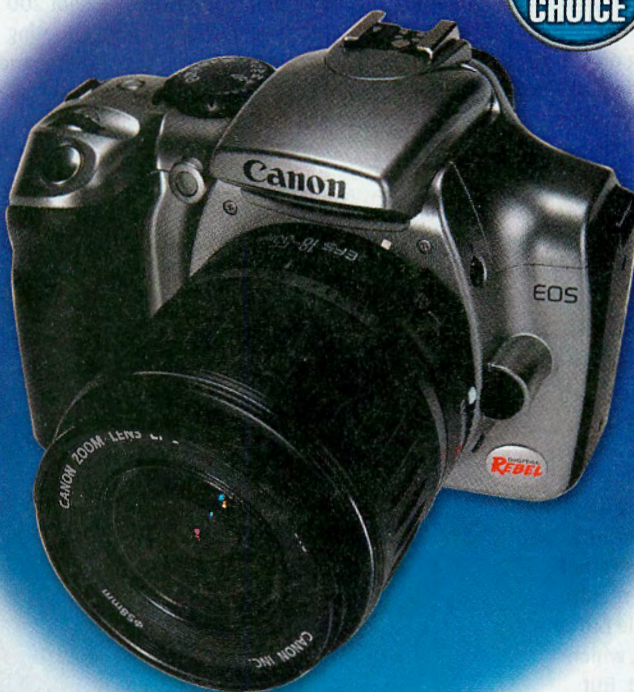
Ready to step up to a digital SLR? The Digital Rebel is ready for you.

LCD displayed sharp image detail, and the LCD panel, which displays camera settings, has a handy backlight for low-light futzing.

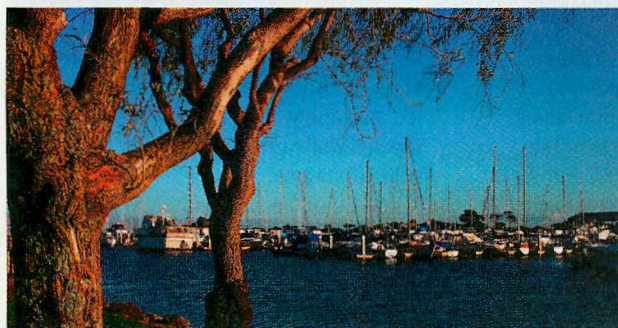
The Digital Rebel Kit includes an EF-S 18-55mm lens (equivalent to 28 to 90mm

in 35mm format, or a 3x optical zoom lens).

While the lens performed well, its manual focus ring (placed oddly at the end of the lens) felt loosey-goosey. When you're ready to upgrade (or if you buy the Rebel body without the lens), the camera supports any Canon EF or EF-S lens. It also ships with a long-lasting rechargeable battery, a charger, USB



CAMERA PHOTOGRAPH BY MARK MADEO



The Rebel consistently churned out excellent, color-accurate exposures—no linear artifacts running down any boat mast here.



In full auto mode, the camera had a tendency to overexpose highlights so that it could expose the rest of the image adequately.

9

COMPANY: Canon
CONTACT: 800-652-2666, www.canonusa.com
PRICE: \$999 (with kit, including lens), \$899 (body only)

REQUIREMENTS:
USB-equipped Mac, Mac OS 9 or later

GOOD NEWS: Beautiful, noise-free, color-accurate images. Lightning-quick auto focus. Great price.
BAD NEWS: Plastic body feels cheap. Some feature limitations. Minor color fringing.

MacAddict RATED
GREAT

PHOTOGRAPH BY KRIS FONG

and video cables, Adobe Photoshop Elements 2, and Canon software. Though it supports CompactFlash Type I and II, as well as the IBM Microdrive, the camera doesn't ship with any media.

While pros will want more customizable settings, the Rebel includes features common to most prosumer and SLR cameras, including auto and manual settings, white balance, scene modes, exposure compensation, flash modes, AF assist, bracketing, and continuous shooting (it snaps a quick 2.5 frames per second, but can only hold four pics in the buffer—don't worry, it empties quickly). Sadly, it lacks flash compensation, selectable metering across all modes, fine-tuning controls (such as one for color compensation), and a way to disable the flash when shooting in certain modes



Even in low light with long exposures, our pics were noise-free.

(and that darn auto pop-up flash also kept smacking our cap brim due to its height). The auto focus was one of the fastest we've seen, and it was easy to alter the focal point with the AF selector.

But the real excitement came when we viewed our work on our Mac's screen—this camera produced beautifully exposed, accurately colored,

sharp, pristine images. Even high-quality JPEGs showed no noticeable artifacts. The camera's auto white balance worked well, but the individual settings were perfectly tuned. Some of our photos, shot in auto mode, had highlight overexposure problems, but switching to manual mode allowed us to balance the exposure.

A few of our photos exhibited some minor

color fringing, but we saw no blooming—even when we shot into the sun.

While we'd like to see more customizable settings in future revs, the Digital Rebel is clear proof that CMOS has legs in the future of digital photography—and that you don't have to pay a pretty penny to get an SLR.

—Kris Fong

- 800 dpi
- For righties + lefties
- Optical tracking

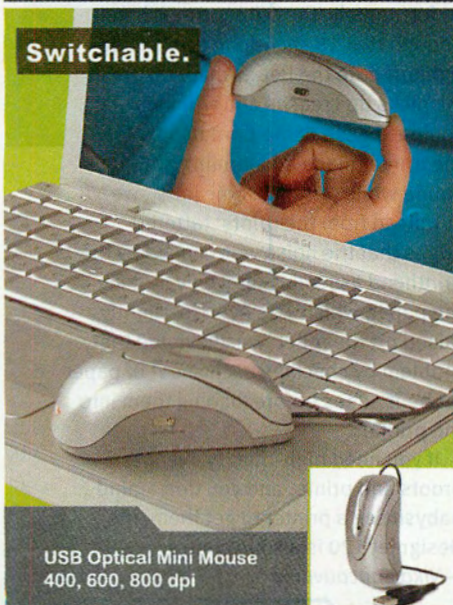
OPTICAL

Mini-Mice for Macs

Three handy alternatives to touchpads for professionals on the go

800
www.iogear.com

Switchable.



USB Optical Mini Mouse
400, 600, 800 dpi

- Switch allows selection of 400, 600, or 800 dpi resolution to adjust sensitivity
- Small and light weight
- Works in tight spaces



GME222

Wireless.



USB RF Wireless
Optical Mini Mouse, 800 dpi

- Eliminates cords
- On/off switch conserves power
- Rechargeable thru USB charger (included)



GME223R

Integrated Storage.



Memory Mini Mouse 800
with 32 MB Flash Memory

- Mouse and memory, all-in-one
- Stores the equivalent of 30 floppies
- Retractable ribbon cable



GME224M32



PHOTOGRAPH BY MARK MADEO

Designjet 120

FINICKY WIDE-FORMAT INKJET PRINTER

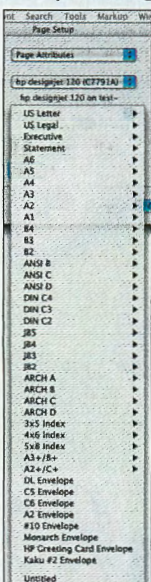
When your inkjet output needs outgrow your desk, HP's 48-pound, 3 1/2-foot-wide Designjet 120 is one small step for wide-format design printers but a giant leap up from any desktop printer. We're talking picture-perfect prints up to 2 feet wide—and up to 50 feet long if you pop for the optional \$420 roll-paper feeder. Getting this beast out of its crate and onto our test bench was the most unpleasant part of using it; getting accurate color on PostScript jobs was a close second.

Setting up this printer involved installing six individual print heads and their six corresponding ink cartridges, and attaching two paper trays—the illustrated quick-start guide could be clearer, but the process is straightforward enough. We tested the base model, so we didn't have to attach the roll-paper feeder or sheet cutter, or configure any network settings (options available as add-ons from HP); we just installed the supplied driver and maintenance utility and rejoiced to find a nice, long USB cable in the box.

The Designjet 120 supports a wide variety of paper, ranging in size from 3 to 24.6 inches wide in every degree of finish, including flat matte, high gloss, and transparency, in thicknesses up

to 0.04mm via the rear-access pass-through slot. We used HP's Glossy Proofing Paper and Premium Plus Photo Paper (both Glossy and Matte varieties). The paper tray holds up to 100 sheets of A3 (11.5 by 16.5), but more than half the time it didn't work and we had to feed sheets manually. Admittedly, the printer is more suited for small runs than volume production, but a functional paper tray shouldn't be too much to expect.

Layout designers and color sticklers



should know that ColorSync support and PCL6 emulation is provided only by the optional \$335 HP software RIP. Without RIP, the Designjet's onboard PCL3 support reproduced our color documents almost (but not completely) accurately, with slightly lightened colors. Our oversized photo prints came out nearly perfect in color and detail;

The Designjet 120 supports a dizzying range of paper sizes.

This orca of a printer churns out some truly awesome prints.

the 4-picoliter droplets are invisible at 2,400 dpi, but at lower-quality settings we noticed a subtle unevenness in some areas that should have printed solid black. Unfortunately, like most inkjets, the Designjet tinted our tortuous, 2-foot-long, black-and-white gradient with light pinks and blues in the gray.

We have no bones to pick with the 120's print speed or quality, though we wish we could get true-color comps without the expensive RIP software. Unfortunately, the output tray is small enough that 18-inch-long prints slide right off onto the floor, where the fresh ink picks up creases and wrinkles like you'd expect a damp print to do. Also, the printer made an alarming grating sound while printing some jobs—we surmised from the prints' tattered edges that the noise was caused by the printhead assembly unevenly striking the paper, which was ever-so-slightly raised off the roller. We alleviated that problem by checking each sheet of paper for bent edges before loading them into the printer.

If you need high-quality oversized proofs and prints, and you don't mind babysitting a printer to get them, the Designjet 120 is a solid choice.

—Niko Coucouvanis



COMPANY: HP
CONTACT: 800-752-0900,
www.hp.com
PRICE: \$1,295

REQUIREMENTS: USB-equipped
G3, Mac OS 9.1 or later, 64MB RAM
(256MB recommended)

GOOD NEWS: Excellent print quality. Prints on 2-foot-wide media.
BAD NEWS: Paper tray works only half the time. Output tray can't handle big prints. Color accuracy suffers without optional, expensive software RIP.

MacAddict RATED
●●●●●
SOLID



HP's Laserjet 1012 is the smallest, cheapest laser printer we've seen—and we mean cheap in a good way.

a tall order for a printer with 8MB of RAM. It handled huge PDFs, multipage InDesign docs, the full text of *Genesis* (King James's version, not Phil Collins's), and hefty JPEG files. That 8MB is not upgradeable, and you can't add an Ethernet card to make it a network printer. However, Mac OS X's good old USB Printer Sharing worked for us.

As with all printers, you will eventually need to replace the 1012's toner cartridge. This cute little printer uses a cute little toner cartridge, which at \$69.99 costs less than a full-sized printer's cartridge. However, its claimed lifespan of 2,000 pages (at 5 percent coverage) equates to about \$0.03 per page, which is up to three times the per-page cost of full-sized printers. Just keep in mind that full-size printers won't fit on your desk (or in your budget) nearly as well as the Laserjet 1012. Another compromise for this printer's small size is its limited paper capacity: It holds a total of only 160 sheets in its two input trays and 125 sheets in the output bin on top.

Setting up and using the 1012 is a cakewalk. You simply insert the toner cartridge, install the driver on your Mac, and plug in the power and USB cords. HP continues the tradition of cheating the printer-buying public out of a USB cable, but in a way we're glad—otherwise we wouldn't have much to complain about. Something we found more curious than annoying was that prints came out very warm—almost hot—to the touch, a great feature if you live in Irkutsk, Siberia.

As a laser printer should, the 1012 prints text better than graphics, and its small size, ease of use, easy setup, and quiet and quick printing greatly impressed us.

—Niko Coucouvanis

Laserjet 1012

WEE PERSONAL LASER PRINTER

We've never thought of laser printers as cute, petite, or even smaller than a breadbox, but HP's Laserjet 1012 changes all of that. This compact laser printer measures a wee 14.6 by 9.1 by 8.2 inches and produces sharp-as-a-tack text quickly and without hassle. As laser printers go, we'd almost call it portable: Weighing only 13 pounds, it's easily the most desktop-friendly laser printer we've seen.

But as happy as we are with the 1012's physical form, we know size isn't everything. We also appreciate speed and quality, and the Laserjet 1012 didn't disappoint. On simple jobs, HP claims a first-page-out speed of 10 seconds—we couldn't beat 12. On larger composite jobs, our first page appeared after about 20 seconds—still pretty fast. Once it started spitting out pages, the 1012 delivered on HP's promise of 15 pages per minute. Printed text was better than we expected from a \$200 laser printer: At the standard 600-dpi resolution, characters appeared crisp and smooth down to magnifying-glass

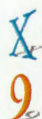
size. Printed graphics didn't fare quite as well as text and line art; grayscale images exhibited a fair amount of noise and muddiness—but again, it was better than we expected. You can double the effective resolution by switching on HP's RET (Resolution Enhancement technology) in the Print dialog, but it's merely a digital extrapolation, and we couldn't discern any effect on print quality.

As we mentioned, the 1012 lagged a little on complex print jobs, and outright dragged on *really* complex jobs. But frankly we were surprised the printer could even print our test file (a 246MB PDF file) after about 5 minutes spool time—that's



The Laserjet 1012 had no trouble printing this complex three-page PDF.

PHOTOGRAPH BY MARK MADEO



COMPANY: Hewlett-Packard
CONTACT: 800-752-0900,
www.hp.com
PRICE: \$199.99

REQUIREMENTS: USB-equipped
Mac, Mac OS 9.1 or 10.1 or later

GOOD NEWS: Great text quality. Cheap. Smaller than a breadbox.

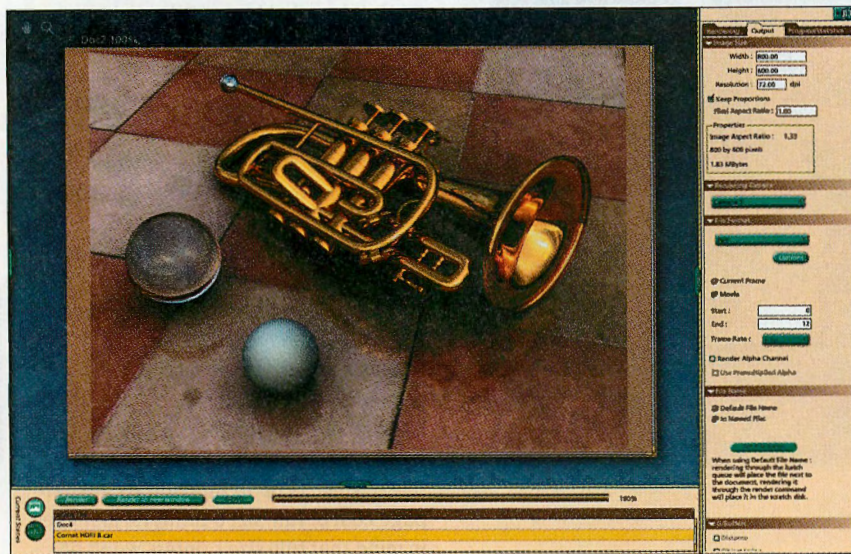
BAD NEWS: Chokes on big PostScript jobs.

MacAddict RATED

GREAT

Carrara Studio 3

AFFORDABLE 3D-GRAPHICS SOFTWARE



Carrara's newfound support for pro-level illumination tricks produced these convincing real-world lighting effects.

While most of the excitement and attention in the 3D realm usually goes to high-end offerings such as Maya (\$1,999, www.alias.com) and Cinema 4D R8 XL (\$1,695, www.maxon.net), the average graphic designer is likely overwhelmed by the difficult learning curve and corresponding price tag typical of that lofty realm. But fear not: The latest incarnation of Carrara offers a decent set of capabilities coupled with a straightforward interface and downright luscious rendering results.

Carrara Studio 3 is a balanced combination of overall modeling, animation, and rendering capabilities, and it includes just about everything you need to do basic 3D work. But we need to get our two main gripes out of the way: As we lamented in our review of Carrara Studio 2 (Jan/03, p48), the app's interface engulfs your entire screen, disabling the OS X dock and menubar—Eovia should have fixed this interface no-no in the interim. Also, there's

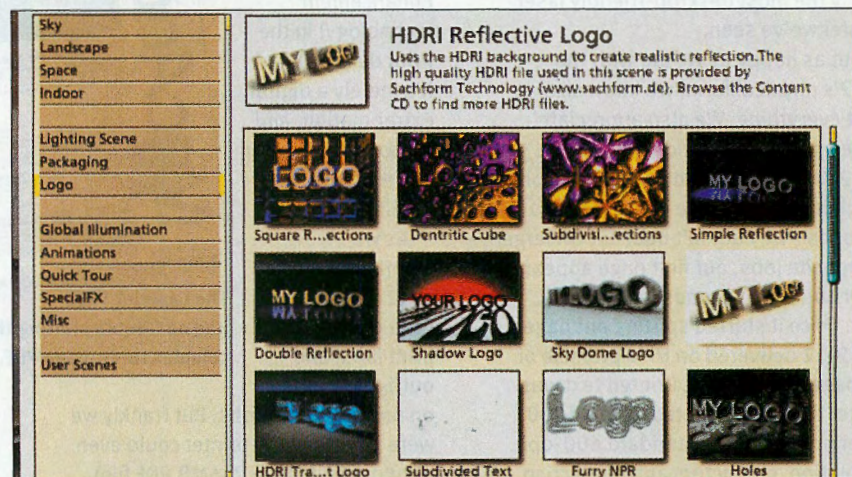
still no support for network rendering, which is a real drawback if you have unused computing power on your network and you're trying to complete a render as fast as possible.

On the plus side, Carrara 3 introduces a new Scene Wizard, which contains a variety of templates for packaging, logos, architectural and special-effects

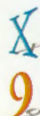
elements, and other projects. This is a great addition for artists intimidated by new, blank documents. Once you select a scene, it's easy to edit or replace existing elements, such as the text included in a logo treatment.

Carrara Studio 3 is organized into separate screens—or *rooms*—for modeling, texturing, storyboarding, assembling, and rendering, each with their own specific tools. The overall selection of modeling and animation tools is mostly unchanged since our last review, with some subtle improvements in overall workflow. New tweaks to the modeling tools include improved vertex/subdivision handling, which makes the extrusion tool more dynamic and yields smoother surfaces on extruded objects. If you're designing natural landscapes, an exceedingly capable Tree Modeler gives you full control over leaves, branch shapes, and more. The advanced tree editing dialog (see top of facing page), however, is downright terrifying—unless you are planning on terraforming a new planet, it may not be worth your while trying to master it.

Rendering gets a whole lot of attention in version 3, with raytraced soft shadows and significantly nicer



The new Scene Wizard provides prefab designs that you can easily tailor to your needs.



COMPANY: Eovia
CONTACT: 888-270-3038,
www.eovia.com
PRICE: \$399

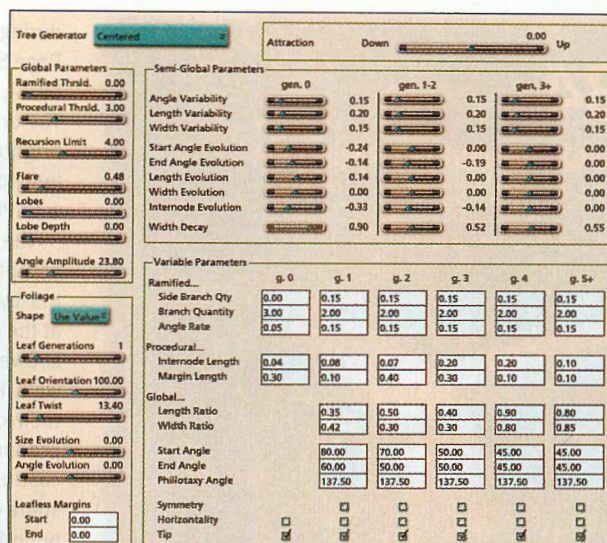
REQUIREMENTS: 266MHz G3,
Mac OS 9.x or 10.1 or later, 128MB
RAM, 300MB disk space

GOOD NEWS: Affordable. Improved rendering capabilities.
New scene wizard speeds up image development.
BAD NEWS: Nonstandard interface takes over your desktop.
No support for network rendering.

MacAddict RATED
●●●●●
SOLID

global-illumination quality—all without the hefty processor-performance price of real radiosity techniques. A slick new addition is support for HDRI (high dynamic range images) processing, a way-cool way to use specific types of image maps as lighting sources that results in a breathtaking photorealism not easily achieved otherwise. Carrara's Non-Photorealistic rendering mode automatically creates cartoon and sketch styles from renderings. We're not sure if we like the idea of incorporating this into the rendering process, though—we'd prefer the time-saving ability to swap filters in and out without affecting our initial high-quality render so that in case we don't like an effect, we don't have to start over from scratch.

Speaking of production, Carrara's new



alpha-channel support is a welcome—and crucial—improvement, allowing you to render individual elements separately and combine them with other objects and different backgrounds after they're rendered. This type of functionality

Carrara's Tree Modeler gets our vote for Most Intimidating Dialog of the year.

is critical for professional graphics and video-production tasks. New shader types (including fractal noise and color gradients), volumetric lights (for more realistic atmospheric density effects), and sky dome illumination round out the rendering offerings, and are important—if not earth-shattering—enhancements to the application.

Overall, Carrara is still not the end-all-and-be-all 3D application

for industrial-strength tasks, but for artists who need to break into the universe beyond two dimensions, it provides a fairly straight line between creative ideas and (virtually) tangible results.—David Biedny

Solace 1.04

TURN-BASED ROLE-PLAYING GAME

Beginning with Blizzard's Warcraft in 1994, computerized wargaming replaced the board-game style popular in the 1980s. From there, real-time titles such as Microsoft's Age of Empires and Sid Meier's Civilization came to dominate the genre. Solace returns to a turn-based style of play reminiscent of games such as Delta Tao's Spaceward Ho and Strategic Conquest.

If you've played Avalon Hill's Axis & Allies board game, Solace will feel familiar. Freeverse doesn't shy away from the comparison, describing the game as being "in the noble tradition of Axis & Allies." It ain't kiddin'—if Solace's dice-rolling combat system and basic turn-by-turn gameplay were any more like that of Axis & Allies, Solace would be a direct lift.

Two alliances, each composed of three countries, are vying for world domination

through land and sea combat. As a two-player game, Solace is well balanced: Each alliance has an equal chance of winning. With more opponents, the balance begins to teeter: One country—the Minx Cartel—starts out in a nearly hopeless position, with a small, exposed capitol and far-off, indefensible island possessions. Pity the poor player that gets stuck playing Minx by itself, unless they like playing General Custer.

Unfortunately, the single-player game isn't as enjoyable as head-to-head play against other humans. The AI doesn't provide much of a challenge, strategywise, regardless of what level you're playing. As the game progresses, it simply gains more money (absurd



Solace is a throwback to board-game-style wargames of the 80s.

amounts of money at higher levels) to spend on troops. Because this game is as much about brains than brawn, that's bad news: Out-smarting a dumb opponent isn't terribly satisfying.

Solace will bore the pants off young whippersnapper gamers, but if your memories of waging war in turn-based board games are fond ones, you'll want this game.—Ian Sammis



COMPANY: Freeverse Software
CONTACT: www.freeverse.com
PRICE: \$19.95

REQUIREMENTS: 333MHz G3 or faster, Mac OS 9 or later, 64MB RAM (128MB for OS X), 80MB disk space, 16MB OpenGL video card

GOOD NEWS: Solid turn-based war game.
BAD NEWS: Crappy AI.

MacAddict RATED
SOLID

Stylus C84

ALL-WEATHER FOUR-COLOR INKJET PRINTER



The C84's main frill is that its prints will outlive the hardware.

How do you improve a moderately priced inkjet printer capable of quickly spitting out photo-quality prints that resist the detrimental effects of time, light, and water? For starters, knock down the price. With its C84 printer, Epson has created a worthy replacement for the C80, which we found satisfactory but slightly overpriced (*Reviews*, Jan/02, p49).

We wouldn't call this a bare-bones printer, but it's pretty lean on features: no direct-from-camera (or media-card) printing and no extra image-improving colors, such as light magenta or photo grey, which other printers offer.

DuraBrite, Epson's archival-quality ink, is the star of this show. When applied to the right paper (Epson's DuraBrite, natch), prints are completely waterproof. If that sounds like an unnecessary frill, you've never accidentally dripped coffee on the top-quality 8-by-10-inch glossy that just crawled out of your printer—liquid destroys most photos. DuraBrite text is waterproof too—just what our home-printed envelopes need to survive the rainy season. DuraBrite also allegedly withstands the effects of time and

light, which according to Epson won't fade for 80 years—sadly, we're not equipped to confirm or deny this claim.

Epson's driver complicates an otherwise brainless setup. To get the promised borderless printing, you need to specifically set up the printer for borderless support when you add it to Mac OS 10.3's Print Setup Utility (aka Print Center in earlier versions of OS X). The default printer-setup selection, labeled simply Stylus C84, seems like a good choice, but you need to select Stylus C84 (Sheet Feeder – Borderless)



We printed this goldfish with DuraBrite ink and paper more than two years ago. After soaking it in water and then hanging it on our wall for 26 months, it's still seaworthy.

during setup and again in a document's Page Setup dialog to get borderless 4-by-6-, 8-by-10-, or 8.5-by-11-inch prints. The driver provides sliders for tweaking brightness, contrast, saturation, and individual-color levels, but we'll stick with Photoshop for such adjustments.

The C84's print speed and quality is acceptable and then some. A borderless, 8.5-by-11-inch print took 3.5 minutes at the mid-range Photo quality but showed a little more banding than we'd like. The next step up, Best Photo, took longer (almost 9 minutes) but produced an image on par with printers costing twice as much as the C84—only some extremely faint banding marred our print. At Photo RPM (Resolution Performance Management), the highest quality setting, the same photo took 20 minutes to print and showed no trace of banding—extreme scrutiny, however, revealed visible ink droplets. Overall, the DuraBrite inks are a little less glossy than other inks we've seen, but some of us prefer it that way—prints on matte paper look fabulous and don't exhibit the pinkish-purple twinges the C84 (like most inkjets) adds to midtones and gradients on glossy paper. The C84's text-printing capability is similarly strong: Text remains legible down to 4 points. At any size, close inspection reveals slightly rough edges, but you won't mind unless you prefer reading with a magnifying glass.

The C84 sucks ink a little faster than most inkjets: After printing 20 borderless photos—10 letter-size, and 5 each at 4 by 6 and 5 by 7—the driver's display of our remaining ink showed each tank about half full. That said, we made most of our prints on the highest setting; standard printing will use up less ink. Other than the C84's paper tray, which we had to occasionally poke at to get the paper loading correctly, there's not much to dislike about this printer. If price and print longevity are more important to you than professional-level print quality, you'll be happy with this one.

—Niko Coucouvanis



COMPANY: Epson
CONTACT: 800-463-7766,
www.epson.com
PRICE: \$99

REQUIREMENTS: USB-equipped
Mac, Mac OS 8.6 to 9.x or 10.1 or later

GOOD NEWS: Long-lasting prints. Good print speed and quality.

BAD NEWS: Occasionally fickle paper tray.

MacAddict RATED
●●●●●
GREAT



It's big, it's burly, and it can save your bacon.

SureVault 800

INDUSTRIAL-STRENGTH RAID-5 ARRAY

Using irreplaceable data is a terrifying experience—so much so that data-recovery specialist DriveSavers (www.drivesavers.com) mans its switchboard with a trained suicide-prevention counselor. Backing up frequently is one safeguard against data loss, but having a RAID array that can automatically rebuild your data in case of a catastrophic disk failure is even better. Kano Technologies' SureVault 800 is one such array—and it's a tough-as-nails beauty.

Inside the SureVault 800's hefty metal case are a hardware-based RAID-5 controller, a power supply, a rather loud fan, and three Western Digital Caviar WD1200 Enhanced IDE hard drives, each in its own lockable drawer. On the back are two FireWire 800 ports, one FireWire 400 port, and a USB 2.0 Type B port. A copy of Dantz's Retrospect Express backup software (www.dantz.com) is also included, as are all necessary cables and duplicate drive-drawer keys.

Like all RAID-5 arrays, the drives are not only striped together to share high-speed data-storage duties, but also they store *parity* information—should one drive fail, this information enables the remaining drives to rebuild the data that the failed drive contained. After subtracting the space needed for the

storage of parity information, the three 120GB drives yield a total of 223.5GB of usable storage space. The SureVault comes preconfigured as a RAID-5 array, so set-up is brain-dead easy: Just plug it in, turn it on, and you're good to go.

The RAID-5 capability of the SureVault 800 worked like a charm. In the middle of a large file transfer, we unlocked and removed one drive—the others took over instantly, and the file transfer proceeded without a hitch. We then reinserted the missing drive, and the SureVault 800 immediately began redistributing data and parity information to it, with on-drawer LEDs and an audible alarm informing us of the rebuild's progress (a sometimes lengthy process).

Our one quibble is that the SureVault 800 isn't as fast as we would like. Even with RAID-5 data striping, performance was about equal to that of a single-drive 250GB LaCie d2 FireWire 800 drive. We suspect that the higher data density of the LaCie drive contributes to its ability to keep up with the RAID array, but at press time the folks at Kano could neither confirm nor reject our theory. In any case, if data integrity is critical to you, and if you can shell out the megabucks needed to buy RAID-5 protection, the SureVault 800 is a great choice.—*Rik Myslewski*

COMPANY: Kano Technologies

CONTACT: 866-500-5266 or 714-379-5520, www.kanotechnologies.com

PRICE: \$2,199

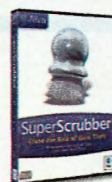
GOOD NEWS: Provides top-notch data protection.

BAD NEWS: Expensive. Loud fan.

REQUIREMENTS: USB 2.0–equipped Mac, FireWire 400, FireWire 800

MacAddict RATED
●●●●●
GREAT

Got New Hardware?



PROTECT THE OLD
Permanently erase all data from your old Mac with SuperScrubber's military-strength disk sanitization




PROTECT THE NEW
As files are deleted, make sure they are securely deleted, automatically with AutoScrubber

ERASE THE RISK



SuperScrubber.com

(503) 520-9500

 **Jiiva**

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PowerShot SD10 Digital Elph

STYLISH 4-MEGAPIXEL DIGITAL CAMERA

We like the PowerShot SD10 Digital Elph partly because it comes in such cool colors (bronze, black, white, and silver) and partly because it packs 4 megapixels into such a sleek little body. However, its lack of optical zoom—and its poor-quality digital zoom—keep this camera from receiving top honors.

At a svelte 3.6 by 1.9 by 0.7 inches, the ultrastylish SD10 makes other cameras look like linebackers.

The SD10 sports all the consumer features you'd expect: the ability to take 3-minute QuickTime-playable videos; white-balance settings; macro, nighttime, and panoramic-stitching modes; effects such as sepia, and black and white; and manual exposure



settings and ISO speeds, which particularly help in low light, where the camera needs some tweaking to get a crisp, properly exposed shot.

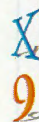
Where the camera falls short is with its 5.1x digital-only zoom—much inferior to the optical zoom included on most

Those who don't care about the difference between digital and optical zoom will love this camera.

cameras in this class. The digital zoom is best suited for close-up shots in Macro mode; however, it proved inadequate when zooming in on distant subjects, producing fuzzy shots. And when we zoomed in to the 5.1x maximum, the LCD preview was noticeably pixelated, making it difficult for us to see exactly what we were shooting.

Still, this Elph is cute, compact, and takes crisp and vibrantly colored shots—just don't push it too far.

—Narasu Rebbapragada



COMPANY: Canon

CONTACT: 800-385-2155,

www.powershot.com

PRICE: \$449 (SRP), \$349 (street)

REQUIREMENTS: USB-equipped Mac, Mac OS 9.x or 10.1 or later

GOOD NEWS: Tiny. Beautiful styling. Easy to use. Takes crisp snapshots.

BAD NEWS: No optical zoom. Digital zoom produces excessive blur.

MacAddict RATED



SOLID

PHOTOGRAPH BY MARK MADEO

We make the coolest Mac stuff on the planet - period.

For over ten years **Griffin Technology** has created smart, beautiful and original accessories for the Mac and now iPod. Every day we are dreaming up new ways of making you say "Wow."

Here are a few of our ground-breaking accessories to add to your Griffin wish list. From the drop dead beautiful PowerMate to the classic iMic, we set the standard for the coolest Mac stuff in the world.



PowerMate ^{\$45}
USB MultiMedia Controller Knob

- Now in Brushed Aluminum and Black
- Great control for iTunes or iMovie
- Programmable for any application
- Replaces repetitive keystrokes

LL-M17W1U

RIDICULOUSLY NAMED LCD TV MONITOR AND MAC DISPLAY

Truly a display-of-all-trades, Sharp's LL-M17W1U acts as a TV, game-console hookup, and Mac display. However, if you're mainly looking for a solid Mac display, look elsewhere.

The LL-M17W1U is a widescreen 17-inch VGA LCD with a native resolution of 1,280 by 768 pixels. Unfortunately, it took us weeks to figure out that we had to use the display's onboard controls to properly set the resolution.

After we got it to display correctly, results were mixed. Colors were vibrant, and digital photos of our editors' faces were crisp and warm. However, text was blurry and looked similar to a document printed out on an inkjet in draft mode.

On the multimedia front, the display



Warning: Plugging a coaxial cable into this display can cause first-degree burns.

comes with composite, component, and S-Video inputs; a built-in TV tuner and speakers; and picture-in-picture

capability. TV and DVDs looked great, and gaming performance was stellar. But those results came at a cost—of skin. When a certain editor's spouse plugged in a cable-TV coaxial cable without turning off the display, sparks and flames shot out, partially melting the cable and charring the finger of said editor's spouse. To be fair, page E13 of the manual gently warns you to turn off the display before plugging in an antenna. However, 10 out of 10 dudes surveyed around our offices said they never read manuals and would not have powered down the display.

Pyrotechnics aside, this is a decent multimedia display. But as a Mac monitor, it's far from perfect.—Cathy Lu



COMPANY: Sharp Electronics
CONTACT: 800-237-4277,
www.sharp-usa.com
PRICE: \$699

REQUIREMENTS: Mac with VGA
video out

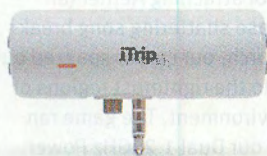
GOOD NEWS: Built-in TV. Widescreen. Warm colors.
Inexpensive.

BAD NEWS: Blurry text. Weird setup procedure. Singed spouse's hand.

MacAddict RATED

SO-SO

PHOTOGRAPH BY MARK MADEO



iTrip

FM Transmitter for iPod

\$35

- Play your iPod through any empty FM radio station from 87.9 to 107.9
- iPod powered - no battery necessary
- Fits beautifully to top of iPod - no messy cables or hanging dongles



iCurve

PowerBook & iBook Stand

\$39⁹⁹

- Raises laptop screen to a more comfortable eye-level height
- Creates room on the desktop for an external keyboard and mouse
- Keeps laptop cool with complete 360 degree air circulation



iMic

USB External Sound Card

\$39⁹⁹

- Adds stereo audio inputs & output to any USB equipped Mac or PC computer
- Includes everything needed to record albums and tapes to make MP3s & CDs
- Plug-and-Play simple, no install required

GRIFFIN TECHNOLOGY
www.griffintechnology.com



Ghost Master

ENTERTAINING SIM HORROR GAME

Singing her Siren Song, the Weatherwitch helps herd humans where you want them to go.

Picture Aspyr's *The Sims* with a dark side—that's the gist of Feral Interactive's *Ghost Story*. This humorously macabre game is creative in concept and entertaining to play, but it won't satisfy thrill-seeking gamers.

You play the Ghost Master, a behind-the-scenes scare tactician who trains and manages a gang of ghouls that go out in groups to scare humans for sport. To do this, you choose a team of 5 initial haunters from a cast of 47.

Each haunter is armed with four unique powers, each of which requires Plasm (energy) to invoke. Higher Plasm powers scare more effectively than lower Plasm powers. You raise your Plasm reserves by scaring humans. The more humans you scare, the more Plasm you build up, the easier it is to scare humans, and so on.

Watching petrified humans is hilarious. Although this game is not officially related to Aspyr's *The Sims*, *Ghost Master*'s characters speak the same sort of gibberish. As you taunt them with rattles, whirlwinds,

and apparitions, watch them scream and run aimlessly. As with *The Sims*, icons appear from time to time over their puny human heads to reveal their deepest fears. As they encounter paranormal phenomena, humans are wrapped in spirals of light that are color-coded to indicate whether they are fraught with terror, descending into madness, or have become convinced of the existence of spirits. As their panic increases in intensity, they cower in corners, run in circles, or shake their fists, until they ultimately flee their environments, arms a-flailing. What a hoot!

That's the desired outcome of your team's first relatively easy assignment: Scaring a group of towel- and nightie-clad sorority girls into abandoning their sorority house. Missions get more complex as you progress through the game.

Sometimes you'll have to cooperate with the hapless humans, scaring them enough to gain Plasm but keeping them around so they can discover skeletons or read from occult literature. The game gets surprisingly deep. In

role-playing style, you can develop real strategies based on where you place haunters, what combinations you use, and what powers work best where. The more you use a haunter, the more adept they become at haunting. As you finish levels, you receive Gold Plasm, the official currency of the underworld. Use it to reward your haunters by giving them new skills in the Ghoul Room.

The hardest part of the game is getting started. We found navigation a bit clumsy, and it took some time to learn how to deftly roam through floors, zoom in and out, switch camera angles, and pan environments. Also, we sometimes had trouble selecting objects and attaching haunters. For example, in the midst of attaching Aether (an evil fairy whose shattering song breaks glass) to a porch, our cursor spazzed out and sent us to the rightmost regions of the game environment. The game ran smoothly on our Dual 1.25GHz Power Mac but was choppy on our 867MHz PowerBook. Plus, the missions are disappointingly short—great if you've got a free half hour to wait for a plane or screw around at work, but ultimately unsatisfying if you're looking for a mission to sink your teeth into.

We love *Ghost Master* for what it is, a light-hearted Amityville twist on the classic *Sims* game. It's funny and visually creative—great for gamers looking for a laugh rather than an adrenaline rush.—Narasu Rebbapragada



Bad ghouls, bad ghouls, whatcha gonna do when they come for you?



COMPANY: Feral Interactive
CONTACT: www.feral.co.uk
PRICE: \$50

REQUIREMENTS: 700MHz Mac, Mac OS 9.1 or 10.1.3 or later, 128MB RAM, 750MB disk space, 16MB VRAM

GOOD NEWS: Delightful concept. Creative characters. Surprisingly strategic gameplay.
BAD NEWS: Somewhat buggy. Can't save mid-game. Short levels.

MacAddict RATED



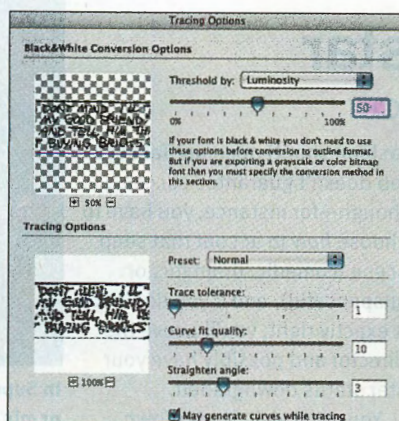
GREAT

ScanFont 4

FONT-CREATING PLUG-IN

One problem that has plagued type designers since the Pleistocene era is getting vector data from a drawing program into a font editor. This process generally involves esoteric clipboard settings, opaque keyboard commands, and no small amount of hair pulling. ScanFont streamlines the type-creation process by autotracing fonts, glyph by glyph, as it imports them into FontLab or TypeTool (\$549 and \$99, respectively).

Traditionally, type designers create glyphs by hand in a vector-drawing program, then copy and paste them, one by one, into a font editor, where the designer fine-tunes scale and positioning. During this process, carefully crafted stroke widths and weights frequently become uneven,



Create a custom font out of your scanned handwriting or any collection of shapes.

necessitating further adjustment after the import process. With ScanFont, you can start with a TIFF, BMP, or EPS file; a QuickTime-compatible file; or even an image imported directly from

a scanner. From there, set some basic trace-tolerance options, and then watch as FontLab or TypeTool imports it as a set of editable glyphs. The glyphs require tweaking to make them usable in anything other than the most forgiving environments, but ScanFont handles the bulk of the busywork for you. If your document already contains vector data, ScanFont will offer to scale the images (uniformly) and shoot them into individual glyph containers in FontLab or TypeTool—thereby consolidating a usually 200-step process into a 3-click operation.

Hard-core type designers who draw their fonts directly in FontLab—or those of you who demand precise control over every curve—will tweak everything by hand anyway, but ScanFont is useful for automating a good portion of almost any type-design workflow.—Paul Yoon



COMPANY: FontLab
CONTACT: 866-571-5039,
www.fontlab.com
PRICE: \$99

REQUIREMENTS: G3, Mac OS
10.2 or later, FontLab or TypeTool

GOOD NEWS: Massive time saver. Automatic scaling. Great results.
BAD NEWS: Requires FontLab or TypeTool. Sparse drawing tools.

MacAddict RATED
GREAT

Dragon Burn 3.1.04

REDUNDANT DISC-BURNING SOFTWARE

Burning CDs and DVDs, once a niche activity, has become so common that most of us no longer think about disc-burning software—the Mac's Finder and free iApps handily fulfill the vast majority of our disc-burning needs. But it's good to have options, so we took Dragon Burn for a spin and found that although it performs as advertised, it's unnecessary for those of us who don't need to burn enhanced (combined data and audio) CDs or burn to multiple drives at once.

Dragon Burn lets you import iTunes Playlists for burning, offering you a choice of AIFF, WAV, or MP3 encoding at burn time. You can reorder tracks, hear an audible preview, and set the length of between-track pauses to control gaps between songs. iTunes does all of this, and it does it better than Dragon Burn—

Dragon Burn only retains the title, playtime, and length of pauses between tracks.

In Dragon Burn's favor, it supports burning to multiple drives simultaneously and has enhanced-disc support, both of which will appeal greatly to a few folks. The extremely frugal will appreciate Dragon Burn's overburn support, which allegedly lets you pack a few extra bytes onto each disc—but only if the burning drive cooperates (our Matshita drive—equipped Panasonic LF-P567C burner didn't).

One potential reason to use Dragon Burn is that it supports some drives that the Mac OS doesn't—but such drives



Dragon Burn can import, encode, and burn your Playlists but not as intelligently as iTunes can.

usually come with bundled software. If you can find a reason to buy Dragon Burn, more power to you—the app behaved itself for us, and its price is nice too.—Niko Coucouvanis



COMPANY: Newtech Infosystems
CONTACT: 949-421-0720,
www.ntius.com
PRICE: \$40 (CD), \$30 (download)

REQUIREMENTS: Mac OS 10.1.5
or later, supported optical drive

GOOD NEWS: Supports multiple drives simultaneously. Burns hybrid DOS/HFS and Joliet/HFS+ discs.
BAD NEWS: No interactive-DVD authoring. Mainly duplicates Mac OS X's native capabilities.

MacAddict RATED
SOLID

The Sims Superstar

ANOTHER SIMS EXPANSION PACK

If you're tiring of the same-old Sims gameplay, then run out and buy Superstar, and thrust your Sim into the limelight. But know this: Fame changes everything, and not always for the better.

Instead of advancing through career levels, as regular-schmuck Sims do, you progress through 10 stages of stardom. Advancing requires you to work on skills (like creativity and charisma), as well as schmooze with the right people. Your star power depends on how famous your friends are, so hanging out with your Joe-nobody roommate ain't gonna cut it.

Starting out in Studio Town, you might make 10 or 20 bucks singing karaoke. As you gain star power, other jobs (such as recording a song or modeling for a

fashion shoot) open up. Taking a job doesn't guarantee success, though—for instance, you have to choose *how* to act out that soap scene (comedic, dramatic, or suspenseful), and if you don't do it exactly right, you'll peeve the director and possibly have your star status downgraded.

You must visit Studio Town frequently or else your star power goes down pretty fast. Because of this, the game gets quite frenetic—and challenging. Plus, obsessed fans will stalk you at home. We found ourselves at times longing for the serenity of our old lives. Now we know how Gwyneth Paltrow feels.



In Superstar, you can be a model, actor, or rock star—or mix and match all three, just like J.Lo. Kind of.

You can hire a butler to help you out, but even then, striving for notoriety is tiring. And the game's occasional crashiness is grating. If you're looking for fresh gameplay, Sims Superstar provides it. But if you prefer comfortable mundanity, skip this one.—Cathy Lu



COMPANY: Aspyr
CONTACT: 512-708-8100,
www.aspyr.com
PRICE: \$29.99

REQUIREMENTS: 333MHz G3 or faster (500MHz recommended), Mac OS 9.2.2 or 10.1 or later, 192MB RAM (320MB for OS X), 1.1GB disk space, original game

GOOD NEWS: Lets you follow your Sims to work. Introduces a new aspect to the game.
BAD NEWS: Prone to crashes. Too challenging. Fame gets exhausting at times.

MacAddict RATED
●●●●●
SOLID

ScreenRecord 1.5.4

DECENT SCREEN-CAPTURE UTILITY

In the time-honored tradition of *monkey see, monkey do*, onscreen instruction is all the rage in software training. After years of using the standard Mac screen-recording software, Snapz Pro (\$49, www.ambrosiasw.com), we took ScreenRecord for a spin and found it a sound alternative for capturing screen movies. It lacks Snapz Pro's still-screenshot features but costs half as much.

Launching the app brings up the Controller window, where you set options such as Fixed, Smooth Pan, or Auto Pan camera; cursor visibility and style; and where to save the finished movie file. You can capture the whole screen or specify the capture area numerically in the Controller window—in the latter case, you should also press the Controller window's Set Position

button, which calls up a selection box where you can visually position and resize the recording area. Advanced options let you direct the action by assigning F-keys to manipulate the cursor style and visibility, camera directions, and the size and position of the recording area. Press Record to start recording, and when you're done, simply click the ScreenRecord icon in the Dock—the app creates a QuickTime MOV file automatically, and you can export any other QuickTime-compatible format.

The product FAQs state up front



ScreenRecord's Controller window lets you set basic parameters; once you press Record, the Compression window appears and offers you a choice of QuickTime-compatible video formats.

that screen capture is a processor-intensive operation, warning that framerates of 2 to 7 fps are normal. We got up to 15 fps on a 1.8MHz G5—about the same as Snapz Pro (version 1.0.9), but ScreenRecord doesn't slow down the whole system as Snapz does.

If you make a lot of screen-captured movies (or if you're sick of waiting for Snapz Pro X to become as good as classic Snapz Pro), ScreenRecord, while not exactly great, is better than the alternative.

—Niko Coucouvanis



COMPANY: macXware
CONTACT: 402-554-1400,
www.macxware.com
PRICE: \$24.99

REQUIREMENTS: G3, Mac OS 10.1 or later, 256MB RAM, QuickTime 4.0 or later

GOOD NEWS: Does the job. Less expensive than Snapz Pro.
BAD NEWS: Choppy output.

MacAddict RATED
●●●●●
SOLID

The Mouse

BEAUTIFUL, BEASTLY,
POWERFUL INPUT DEVICE

Our three-year love-hate relationship with Apple's Pro Mouse is over. MacMice's replacement looks like the Pro Mouse's twin sister—the one who got all the brains and coordination, or in this case, a second button and a scroll wheel. Aptly named, The Mouse cuts the cheese on any one-button device and holds its own among multibuttoned peers.

Two buttons and a scroll wheel never looked so good. The Mouse's buttons are integrated into the chassis, so you just press to click. The problem with this slick-looking design is that if you need to drag something beyond the range of your mouse pad, keeping a button pressed



Apple should buy this mouse.

down while picking it up (as you must do with Apple's Pro Mouse) can be a test. The Mouse has a slick fix for this long-



drag drag: The included MouseCommand software lets you program the clickable scroll wheel to lock a click. Other options for the wheel include DoubleClick and Keystroke. Keystroke accepts modifier keys (Command, Control, Shift, Option), so you can, for example, set the scroll wheel button to emulate Command-W and close a window. You can also set the wheel to toggle between the scroll wheel's vertical and horizontal scrolling modes, which can be extremely handy.

The Mouse's tracking is razor sharp; its cord is a wee two feet, which may get tight in some situations but didn't bother us. This is *the* mouse.—Niko Coucouvanis

X
9

COMPANY: MacMice

CONTACT: 615-822-9270, www.macmice.com

PRICE: \$39.99

REQUIREMENTS:

USB-equipped Mac, Mac OS 8.5.1 or later

GOOD NEWS: Should be named The Perfect Mouse. Great software.

BAD NEWS: Has a short cord instead of no cord.

MacAddict RATED



AWESOME

ThumbDrive

FAST USB 2.0 FLASH DRIVE

We've been critical of USB 2.0 in the past, but now that our hardware supports its fast speeds, we're there. Memorex's ThumbDrive won't blow you out of your chair, but it's got almost all the trappings of a great flash drive: superportability, fast data transfer, a locking switch on the end, and capacities up to 512MB. Memorex says a 1GB model should be available by the time you read this.

We're not apt to use any flash drive as a keychain or earring, but we'd trust the ThumbDrive's snug-fitting cap to stay put in all but the most extreme situations. We only wish the ThumbDrive had raised bumps on one side, or some other way to help us plug it in correctly when we can't see the port.—Niko Coucouvanis



Sure, you can hang it from your nose ring.

COMPANY: Memorex

CONTACT: 615-822-9270, www.memorex.com

PRICE: \$60 to \$150 (street; depending on capacity—128MB to 512MB)

REQUIREMENTS: USB-equipped Mac, Mac OS 8.6 or later

GOOD NEWS: Snug cap. USB 2.0 is fast.

BAD NEWS: Can't feel which way is up.

MacAddict RATED



SOLID

USB 2.0/FireWire Combo Hub

COMPACT TWO-IN-ONE HUB

Frankly, we've been puzzled as to why some enterprising manufacturer hasn't combined USB 2.0 and FireWire hubs into one compact unit—now D-Link Systems has done it. Their pint-sized DFB-H7 7-port USB 2.0/FireWire 400 Combo Hub provides three FireWire 400 ports—two on the front and one on the back—along with four USB 2.0 Type A ports (that's the familiar flat type) on the front and one USB Type B port (the squarish version) on the back. An AC adapter is included, along with a Type-A-to-Type-B USB 2.0 cable and a 6-pin-to-6-pin FireWire 400 cable, all for \$59. Nice.—Rik Myslewski



If your peripheral-connections needs are modest, this lil' guy can help.

COMPANY: D-Link Systems

CONTACT: 800-326-1688, www.dlink.com

PRICE: \$59

REQUIREMENTS: Mac OS 10.1 or later

GOOD NEWS: Packages together USB 2.0 and FireWire 400 hubs.

BAD NEWS: What's not to like?

MacAddict RATED



GREAT

X
9

PHOTOGRAPHY BY MARK MADEO

the HotList

THE BEST OF THE BEST FROM RECENT REVIEWS

SHOPPING?
HERE'S WHAT WE
RECOMMEND

NEW THIS MONTH



Adobe InDesign CS

Publishing pro and longtime *MacAddict* reviewer John Cruise calls the latest version of this powerful layout app "a star" and "one fine update."



Adobe Photoshop CS

What else could be added to this insanely versatile app? Plenty. According to veteran imaging expert David Biedny, "You'll want this revision yesterday."

M-Audio Ozone

Easily and seamlessly control MIDI and combine it with audio—*MacAddict* editor and pro musician Kris Fong says the Ozone made her "a one-woman band."



SOFTWARE

AUDIO

IK Multimedia AmpliTube Live	\$129.00	Nov/03, p46	Don't think software can replace monster guitar amps? It can.
MOTU Digital Performer 3	\$795.00	Feb/02, p58	This pro-audio app has a great array of features.
Propellerhead Software Reason 2.5	\$449.00	Sep/03, p55	It's earned its rep as the top software sound studio.

GAMES

Aspyr Jedi Knight II: Jedi Outcast	\$49.95	Feb/03, p37	Fantastic gameplay with both weapons and The Force.
Aspyr NASCAR Racing 2002 Season	\$39.99	May/03, p57	Realistic NASCAR racing on a Mac? Believe it.
MacSoft Neverwinter Nights	\$49.99	Jan/04, p54	Flaunt your Dungeons & Dragons skills in the best RPG ever.
MacSoft Unreal Tournament 2003	\$49.99	Oct/03, p44	Blood and gore. Violence. More blood and gore. More violence.

GRAPHICS & LAYOUT

Adobe Acrobat Professional 6	\$449.00	Nov/03, p50	If you're in pro publishing, this is one must-have app.
Adobe InDesign CS	\$699.00	Feb/04, p46	More features and easier navigation makes layout a snap.
Adobe Photoshop CS	\$649.00	Feb/04, p44	Just when you thought Photoshop couldn't get better, it did.
Adobe Photoshop Elements 2	\$99.00	Dec/02, p40	This app has most of Photoshop's power for \$550 less.
FontLab 4.5.2	\$549.00	May/03, p53	The font editor all we type geeks have been waiting for.
Hemera Photo-Objects	\$99.00	Nov/03, p56	50,000 quality images for under a hundred bucks.
Macromedia Dreamweaver MX 2004	\$399.00	Jan/04, p48	Our favorite Web-design tool adds improved CSS support.
Macromedia Flash MX 2004 Professional	\$699.00	Jan/04, p48	Don't know how to write code? Flash MX will do it for you.
Macromedia FreeHand MX	\$399.00	Jun/03, p49	In the race with Adobe Illustrator, FreeHand stays ahead.

PRODUCTIVITY & UTILITIES

Apple Keynote	\$99.00	Apr/03, p48	This presentation app was built for Mac OS X—and it shows.
Bare Bones Software BBEdit 7.0.1	\$179.00	Mar/03, p52	By far the most powerful text editor money can buy.
Microsoft Office v. X	\$499.00	Feb/02, p42	The 800-pound gorilla of productivity applications.
Prolific Publishing Marine Aquarium 2	\$19.95	Aug/03, p54	OK, it's just a screensaver—but it's the coolest one ever.

VIDEO & ANIMATION

Adobe After Effects 5.5	\$649.00	Dec/03, p62	This motion-graphics stud improves its 3D powers.
Apple DVD Studio Pro 2	\$499.00	Dec/03, p58	Apple's essential DVD-burning app is still the one to beat.
Apple Final Cut Pro 4	\$999.00	Sep/03, p44	This kick-ass video-editor now includes four new apps.

HARDWARE

ACCESSORIES

Formac Studio TVR	\$299.00	Oct/03, p48	Watch TV, record TV, digitize tapes—what's not to like?
Kensington Expert Mouse	\$127.95	Oct/03, p60	Optical trackball plus scroll wheel equals killer controller.
Microsoft Wireless IntelliMouse Explorer	\$64.95	Jan/04, p57	Our favorite mouse adds horizontal scrolling.
Palm Zire 71	\$299.00	Aug/03, p44	A PDA, digital camera, and MP3 player all rolled into one.

AUDIO & VIDEO

ADS Technologies Pyro DV Drive	\$650.00	Jan/04, p55	Record DV video directly to this mobile encoder and drive.
Apple 20GB iPod	\$399.00	Jul/03, p44	The world's greatest MP3 player gets smaller and cooler.
M-Audio Ozone	\$399.95	Feb/03, p59	Need a portable audio/MIDI controller? Look no further.

DIGITAL CAMERAS

Canon PowerShot S230 Digital Elph	\$349.00	Mar/03, p48	A great 3.2-megapixel camera in a tiny, low-cost package.
Leica D-Lux	\$900.00	Oct/03, p46	Exceptional style married with exceptional image quality.
Nikon Coolpix 5400	\$699.95	Dec/03, p22	This prosumer camera handles well and shoots even better.
Olympus C-4000 Zoom	\$449.00	Jan/03, p52	Great image quality, 4 megapixels, and versatile controls.
Olympus D-560 Zoom	\$229.95	Dec/03, p22	This affordable point-and-shoot cam provides great images.

DISPLAYS

Apple Cinema HD Display	\$1,999.00	Aug/02, p40	This 23-inch, 1,920-by-1,200-pixel beauty inspires lust.
Formac gallery 2010 Platinum	\$1,199.00	Jan/03, p47	Bright, fast, huge—and it costs only \$.0006 per pixel.

PRINTERS

Brother HL-1870N	\$699.99	Aug/02, p45	Need a sturdy laser printer? This one's a workhorse.
Epson Stylus Photo 2200	\$699.00	Oct/02, p42	The most stunning photo printer we've ever tested.

STORAGE

LaCie d2 200GB FireWire 800	\$259.00	Jun/03, p47	FireWire 800 speed meets solid-as-a-rock construction.
OWC Mercury Elite Pro	\$299.99	Jul/03, p53	This 180GB FireWire 800 drive outpaces the competition.
WiebeTech Fire800	\$589.95	Dec/03, p53	Hefty 300GB capacity combines with speedy performance.

STAR WARS® JEDI KNIGHT: JEDI ACADEMY™

YOU WILL NOT LEAVE THESE HALLS AS YOU ENTERED THEM.

YOU WILL UNLEARN ALL THAT YOU HAVE LEARNED.

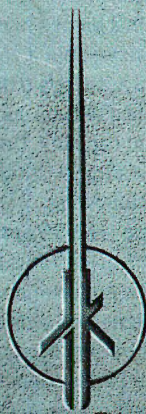
DEDICATE YOUR LIFE TO A HIGHER PURPOSE.

USE THE KNOWLEDGE YOU ATTAIN HERE WISELY.

THE FORCE IS A POWERFUL ALLY. AND A TERRIBLE FOE.

DO NOT BE SEDUCED BY THE DARK SIDE.

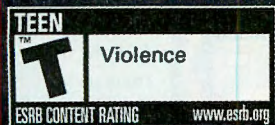
FOR YOU ARE THE FUTURE GUARDIANS OF THE GALAXY.



TM



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GOT A QUESTION?
NEED ADVICE?

ask us WE CAN HELP



BASE STATION EXPANSION

I have a Graphite AirPort Base Station. Can I add a second Base Station to expand the range of my wireless network?

Yes, you can add another Base Station through what's called Active Roaming. Macs connected to different Base Stations can connect to each other as long as 1) their respective Base Stations are hardwired together via Ethernet, 2) the Base Stations are on the same subnet on your Ethernet network, 3) the Base Stations share the same network name and password, and 4) Enable AirPort To Ethernet Bridging is checked in the AirPort Admin Utility. For those who have two AirPort Extreme Base Stations, Apple has

added a new capability called Wireless Distribution System (WDS), which allows one Base Station to connect to another wirelessly—you don't have to connect them physically via Ethernet cable.

MORE ON MACDRAW

You mentioned that GraphicConverter can open MacDraw documents (Ask Us, Oct/03, p64) in Mac OS X, but how can you edit them?

Thanks to reader Bob Heffner for the answer to this one: Since MacDraw is actually a vector-drawing program, you can open these files using MacDraw in Mac OS X's Classic environment, copy them to the Clipboard, and paste them into Adobe Illustrator or Macromedia FreeHand.



BATTERY LIFE

How can I find out the capacity of my laptop's battery?

Batteries remain a bit of a mystery to most laptop users, but if you are running Mac OS X, there's a Unix command that will tell you your battery's current capacity. Open the Terminal (Applications > Utilities) and type in the following:

```
ioreg -l | grep -i IOBatteryInfo
```

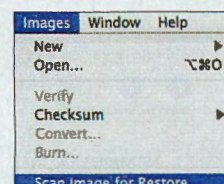
This command gives you a string of numbers, but the important one is the capacity. The higher the number, the more juice your battery has available to it. Check your battery against the maximum capacity of these models: 5,800 for a 17-inch PowerBook, 4,600 for an Aluminum 15-inch PowerBook,

4,700 for a 12-inch PowerBook, and 5,000 for a G4 iBook. You probably won't get close to these numbers, since they are absolute maximums. Our poor little Titanium G4 scored only 3,193.

PANTHER RESTORE

Panther's Disk Utility restore function won't recognize a disk image as a source for restoring a standard installation, which I often need to do at my school's Mac lab. What am I missing?

With Panther, you *can* use Disk Utility to restore a standard installation of the Mac OS, applications, and files from a disk image to any other volume, thus making an exact duplicate of the original Mac's contents. To make this possible, you first create a disk image with Panther's Disk Utility, making sure to designate it as Read-Only—set this option in the Image Format pop-up menu in the Save dialog. Second, select Scan Image For Restore from the Images menu. Locate your image and click the Scan button. Your image is now ready to use as a source image for restoring your original standard installation.



Select Scan Image For Restore to create a restorable disk image in Panther.

CRON HELP

When trying to use the command-line utility cron to schedule scripts to run, I get the response "permission denied." What am I doing wrong?

You can't directly access cron, a system-level utility that lets you schedule

quick answers

TO QUICK QUESTIONS

iPOD TEMP

What temperature extremes can my iPod handle?

iPods can withstand an operating temperature

between 32° and 95° F and a storage temperature between -4° and 113° F.

COOKIE BUSTER

How do I delete cookies in Internet Explorer?

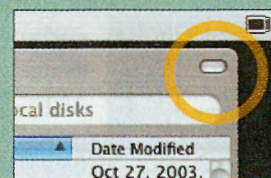
In Internet Explorer > Preferences, select Cookies under the Receiving Files triangle to see a complete list of the cookies installed in your browser. Highlight each one you wish to get rid of and click the Delete button.



REMOVE PANTHER SIDEBAR

How can I get rid of the left-hand Places sidebar in every Panther (Mac OS 10.3) Finder window?

Click the widget in the upper-right corner of the window.



Click to remove Panther's window sidebar.





No whining—
anyone
can do this!



It'll take some
effort, but you
can do it.



This stuff's
for the pros.

UNIX UNIVERSITY



THE PIPE CHARACTER

What the heck is a pipe and why should I care?

The pipe (|) character, is a Unix symbol that passes the results of one Unix command to another for further use.

The command for finding your battery's capacity (see "Battery Life," facing page) includes some pipes:

```
ioreg -l | grep -i IOBatteryInfo
```

The command `ioreg` shows the entire Unix hardware registry maintained by the system, and the `-l` switch says to output the registry. The pipe passes this output to the

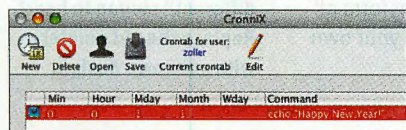
`grep` command, which searches for any string of text that contains `IOBatteryInfo`. The `-i` switch tells `grep` to ignore case.

One further modification using a different kind of pipe, the greater than symbol (>), can pass the results of a command to a text file:

```
ioreg -l | grep -i IOBatteryInfo (space) > mybatteryinfo.txt
```

This sends all the information to a file called `mybatteryinfo.txt`.

operations at specified intervals. That's why you're getting a permissions error. You need to configure cron with the `crontab` command. Type `man crontab` in the Terminal to find out how to set it up. You can also try Cronnix (free, www.koch-schmidt.de), an easy-to-use utility that provides a GUI front end.



Create cron schedules easily with Cronnix.

NONUPGRADABLE POWERBOOKS

Can I upgrade the processor in my Titanium PowerBook?

No. The processor, or CPU, is soldered onto the logic board, so there's no

way to swap it out. Processors on many earlier PowerBooks resided on a removable daughtercard, which made upgrades possible. This is not the case with the G4 PowerBooks.



RESET ITUNES PLAY COUNT

How can I reset my iTunes Play Count?

Open iTunes and locate the song you want to reset. Control-click (or right-click) the song title and choose Reset Play Count from the contextual menu. To reset the play count on all of your songs, select the Library in the left panel of iTunes and then choose Select All from the Edit menu. With every song selected, Control-click to reset the play count for every song.

ThisMonth



66 Make Over Your Desktop

Kaleidoscope was a trendsetter's dream in the classic days of the Mac OS, but it doesn't work in Mac OS X. Good news: You can still mess with your Mac's desktop appearance—we show you how.



70 Add Search to Your Site

You've taken the time to build and post buckets of info on your Web site. Now help your visitors find those choice nuggets of wisdom, knowledge, and lunacy. Here's how to create a search box that can cull results from your site or the entire Web.

72 Sneak Your Mac onto a Windows Network

You can kick and scream all you want, but your boss still might not exchange your PC for a Mac at work. No problem. Bring in your own and infiltrate the company network inconspicuously.

74 Get Better Black and Whites

Want to know why your black-and-white photos don't look like Ansel Adams's? He didn't use a digital camera. Still, you can get more striking black-and-white results if you shoot in color first.



KAZAA ENVY

How can I access the Kazaa file-sharing network on my Mac?

Just download a copy of The Poisoned Project's Poisoned (free, www.poisonedproject.com), based on the Open Source GiFT project (<http://gift.sourceforge.net>). This free Mac OS X application will allow you to share files on the Kazaa and Gnutella networks—but remember what Steve says: Don't steal music.

FORCE-QUIT

Is there a way to force-quit an application in Mac OS X without opening the Force Quit dialog?

Option A: Hold down the Option key while clicking the item's Dock icon, then choose Force Quit from the pop-up menu. Option B (this requires Panther and Cocoa apps): Click Command-Shift-Option-Escape to force-quit the active application immediately.



Seven years of handling tech support for Apple, Power Computing, and a Texas school district have given Buz Zoller Mac superpowers.

Submit technical questions or helpful tips directly via email (askus@macaddict.com) or c/o MacAddict, 150 North Hill Dr., Brisbane, CA 94005.

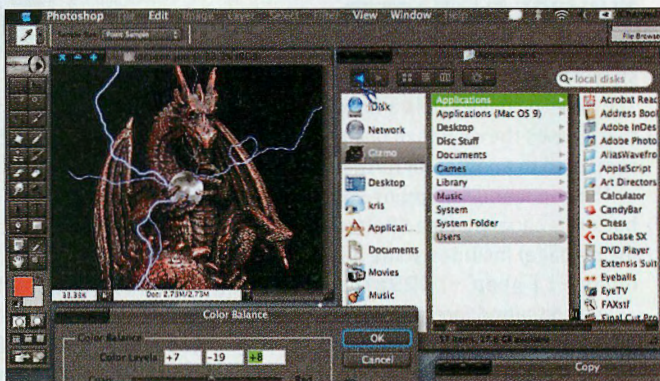
Make Over Your Desktop

by Mary E. Tyler and Kris Fong

Some of you may prefer vanilla; others would rather have chocolate. But given the opportunity to choose from more flavors, wouldn't you? The same can be said about your Mac's GUI, or graphical user interface. Apple's Aqua comes in two flavors—Blue and Graphite—but you can seek out and install third-party files that'll change the look of your cursors, windows, buttons, menus, and more. And if you really want to personalize your Mac, you can create your own desktop design. Here's how.



Whether you want to design your own theme or simply install someone else's, you can change the look and feel of your Mac fairly easily.



Create Cursors

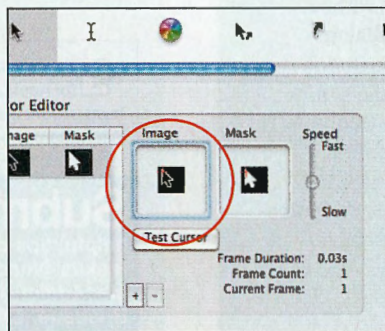
WHAT YOU NEED



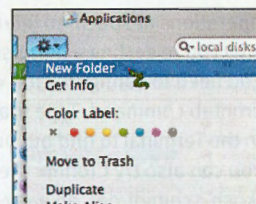
- Mac OS 10.2 or later (\$129, www.apple.com)
- Mighty Mouse 1.1.2 or later (\$10, www.unsanity.com)
- Image editor, such as Photoshop CS (\$649, www.adobe.com) or GraphicConverter (\$30, www.lemkesoft.com)

1 Copy the Original If you haven't done so, install Mighty Mouse, log out of your Mac, and then log back in to make the app active. Open System Preferences and click Mighty Mouse to open its panel. Mighty Mouse works by loading a set of cursors on startup (arrow, I-beam, a spinning wait icon, and more)—it doesn't modify system graphics. To create a pointing cursor, use the original as a template. Click the arrow icon under Available Cursors; its image and mask appear in the Cursor Editor. Click the arrow in the Image box—the one with the red plus sign (+)—and copy it. Open your image editor, create a small new document (24 by 24 pixels is the original size, but you can go a bit bigger—just not too big since larger cursors are processor intensive), and then paste in the cursor.

The easiest way to create a new arrow? Borrow from the original. Just hijack the arrow to your image editor.



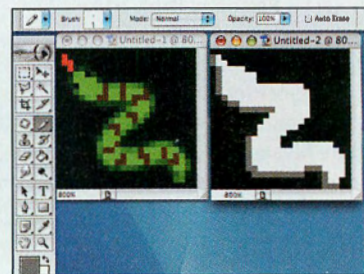
Apple may have retired Clarus the Dogcow and the Happy Mac after years of service, but one perennial icon that's sustained many system upgrades is the cursor. While Apple has enhanced its aesthetic appearance, the black-and-white arrow remains the same. With a little futzing, however, you can transform ol' pointy—and other cursor icons—into your own art oddities. Here's how.



Take Apple's "think different" slogan to heart. Replace the old pointer with your own design.

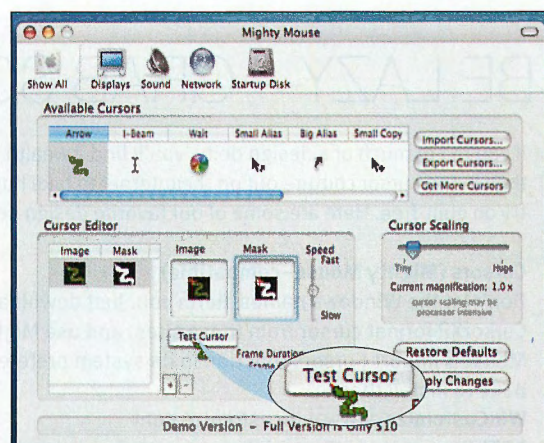
2 Design Your Doodad Zoom in 800 percent to view detail. Then select a design tool and go nuts, but keep the background black. You can modify the existing arrow (make it fatter, skinnier, or whatever) or construct a whole new look. If you alter the arrow shape, you'll need to create a new mask to make your cursor display properly. To do this, create another same-size document. Select the magic wand tool, and click to select your design's entire black background. Copy and paste this into the second document. Then select white and use the paint bucket to dump the color into the nonblack areas, creating the mask. For a shadow effect, select gray and use the pencil to draw one in. You can also just change the arrow color by choosing a new color and using the paint bucket to drop the color on the black portion of the arrow—no new mask needed.

If you're winging it, create a quick-'n'-dirty mask via copy and paste. We penciled in some gray outside the white to create a shadow.



3 Make it Mighty Click your cursor doc, select all, copy it, click the arrow in Mighty Mouse's Image box, and paste in the new cursor. Do the same for your mask, but paste it into the Mask box. The red plus sign is the cursor's *hot spot*, the exact area that the OS maps when you click. If you want to change its placement, click in the Image box and use your keyboard's arrow keys to move it; do the same for the mask. To preview, click Test Cursor. Click it again to stop testing. To customize other cursors in the set, apply the same instructions. Save by clicking Export Cursors; in the resulting dialog, name your set and click Export. To activate the set, click Apply Changes. If you want a different cursor set, click Import Cursors, navigate to the desired cursor file, and click Open. If you get sentimental and want the originals back, click Restore Defaults.

Take your cursor for a test drive by clicking Test Cursor, which instantly transforms ol' pointy into your new creation.



Design an Appearance Theme

WHAT YOU NEED



- Mac OS 10.2 or later (\$129, www.apple.com)
- ThemePark 1.2 or later (\$20, www.geekspiff.com)
- ShapeShifter 1.0.1 or later (\$20, www.unsanity.com)
- Image editor, such as Photoshop CS (\$649, www.adobe.com) or GraphicConverter (\$30, www.lemkesoft.com)



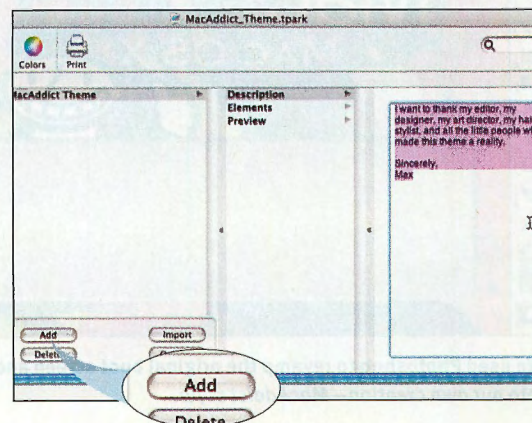
Tweak colors, mold buttons, change menu background patterns—do whatever you want, it's your desktop!

Kaleidoscope, the ultimate desktop makeover app, may have met an unfortunate death in OS X, but just because Apple locked down much of X's GUI doesn't mean you can't do a little renovation. If you're looking to be a true individual, design your own theme. We start you off with the basics: redesigning the

boot screen, recoloring a button, and reshaping a button. It's up to you to decide how involved you want to get with your design. If you don't have the time (and this project will suck up *lots* if you forge ahead with every GUI facet), skip ahead to "Be Lazy—Grab Someone Else's Designs," p68.

1 Create a New GUI File If you haven't already done so, install ThemePark and ShapeShifter, log out of your Mac, and then log back in. Then launch ThemePark. From the File menu, select New, then New GuiKit Package to create a new guiKit file. To get a starting point for your new theme, slurp in Aqua's elements: Click Themes in the left column to display four option buttons, and then click Add to load Aqua into your new theme. If you want to rename the default My Spiffy Theme, double-click the title and type a new one. Then click Description to reveal a description text box where you can overhype your moderate design skills, tell folks what your artistic motivation was, and even thank your mommy (this ultimately gets displayed in ShapeShifter's preference pane when your theme is selected). When you're finished, save your theme.

To save a lot of time, click Add to slurp up all of Aqua's design elements into your guiKit file for use as a template.



BE LAZY—GRAB SOMEONE ELSE'S DESIGNS

If you're not much of a design deity, you'll find a wealth of theme and cursor couture out on the Internet to take home and try on guilt-free. Here are some of our favorite design houses.

Cursors (Mighty Mouse-compatible)

Don't let the Windows names alarm you. Just download any CursorXP format cursor from these sites, and use Mighty Mouse's Import Cursors function in its system preferences pane to install them.

WinCustomize www.wincustomize.com

XPTheme www.xptheme.info

Mac OS X Themes and Cursors

These folks house collections of both themes and cursors. If you're looking for themes, search for ShapeShifter themes or guiKit files. For cursors, look for Mighty Mouse cursors or CursorXP files.

Desktopper.net www.desktopper.net

Max Themes www.maxthemes.com

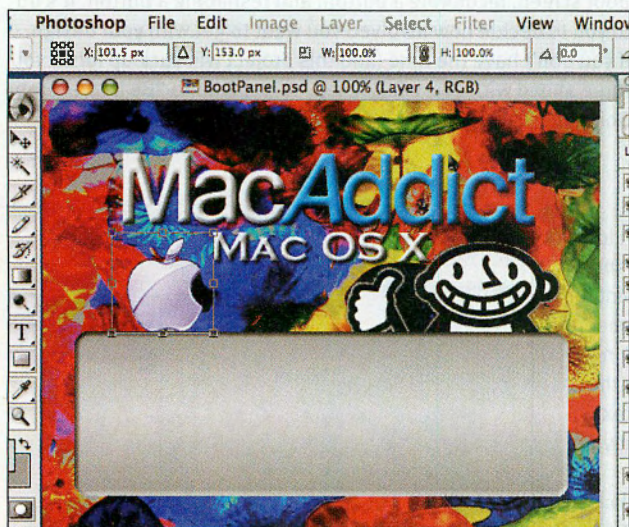
MacUpdate www.macupdate.com

ResExcellence www.resexcellence.com

(huge collection!)

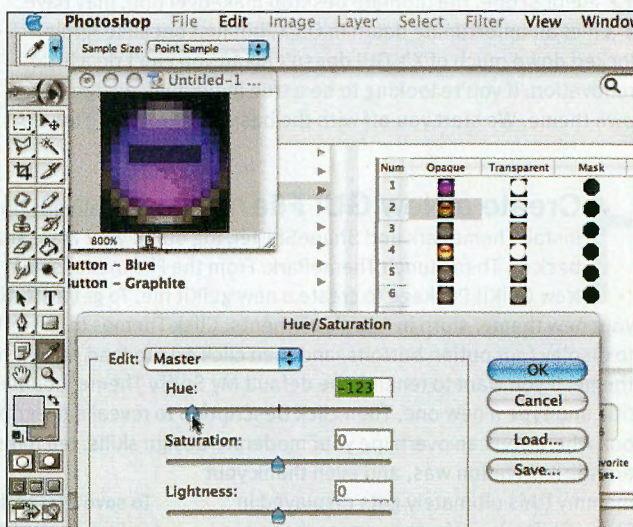
Tucows <http://mac.tucows.com>

2 Beautify the Boot Because most controls are made up of many elements with multiple states, creating a theme can be a lot of work, but you don't have to change every GUI facet. Change what matters to you—the existing Aqua elements will fill anything you ignore. To get your feet wet, first modify the boot panel—the window that displays the Apple logo and “Mac OS X” when you boot your Mac. In the ThemePark window, navigate to Themes > *your theme* > Elements > BootPanel. Drag the BootPanel's preview box image onto your desktop, and then open the resulting TIFF file in your image editor. Now go to town! You can modify what's there (change the apple color and/or modify the text) or paste over photos, add text, paint, and do whatever else until you're satisfied. Don't do a lot of detail work in the space directly below *Mac OS X* since a progress bar shows up on top of that portion during startup. When finished, flatten the layers (if you created any), select all, copy, go back to ThemePark, and paste your work into the BootPanel preview box. Then save your theme.



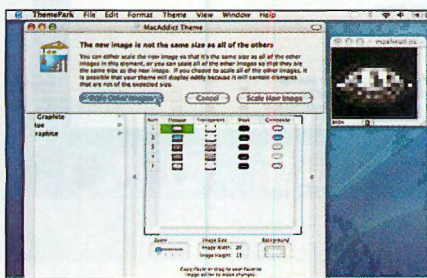
We used Photoshop to revamp the original boot screen and turn it into our own creation—*MacAddict* style.

3 Recolor Elements The fastest way to change the look of interface elements is to change their color. Let's redo the window minimize widget—the yellow globule sandwiched between the red close and green zoom buttons—for OS X's Blue appearance. Navigate to Themes > *your theme* > Elements > Global Elements > Window Titlebar Buttons > Large > Large Minimize Button - Blue to display the widget's graphical components. To modify the button's normal state, select the image in Opaque 1 and copy it. Switch to your image editor, create a new document (14 by 16 pixels for Panther, 19 by 19 pixels for Jaguar), and paste in the graphic. Zoom in to view details. Select your editor's Hue/Saturation control, use the Hue slider to modify the existing color to one of your liking, and click OK. Then select all, copy, and paste the new graphic over the old one in ThemePark. ThemePark automatically updates the image in the Composite column. Repeat the process for the images in Opaque 2 and 4, using the same color. When you're done, change the close and zoom button colors, and then save your theme.



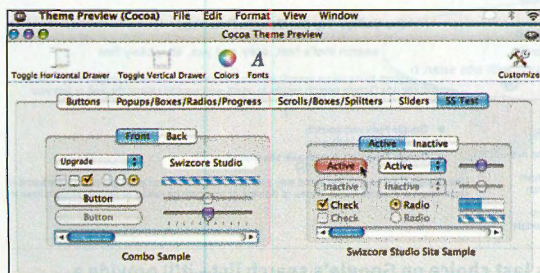
Use the Hue slider to change button colors with ease—note the graphical components table toward the right.

4 Sculpt a New Button If you're feeling ambitious, change the shape of a button; you must change its transparency and mask to have it display properly. Let's tweak the toolbar button—the capsule-shaped widget in a Cocoa app window's upper-right corner. In ThemePark, click Large Toolbar Button - Blue (in the same column as Large Minimize Button - Blue) to display its graphical components, and click the graphic in Opaque 1 (the normal state). The image's dimensions appear in the Image Size box. In your image editor, create a new document with a transparent (if supported) or black background that's roughly the same size; don't go too big or your button won't fit in the window. Then create your new button. When finished, flatten all layers, and then copy and paste the graphic over the original Opaque 1 in ThemePark. If you made your button a different size, ThemePark asks if you want to scale your button to the others or scale the others to your button—click **Scale Other Images**. Then paste the same graphic in Opaque 5.



Our new button is slightly larger than the original toolbar button, so we had ThemePark scale the other components to reflect the new size.

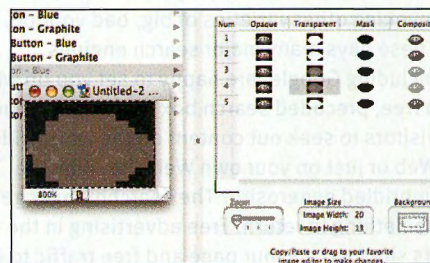
6 Sculpt a New Button If you want to change other elements, just apply what you've learned to them. When you're all done (or anytime you want to preview your work), test your theme. From the Theme menu, select Theme Preview, then Display And Update Preview Windows. Cocoa, Carbon, and Brushed Metal windows open; play around with the window elements to test how your buttons redraw—or don't redraw. If things look funny, quit the preview and do more tweaking. Because Apple hard-coded many OS X widgets, changing something too much could mean OS X won't render it correctly and you'll have to change it back—in that case, just select the element and select Discard Modified Elements from the Theme menu. Once everything's looking good, take a screenshot of a Preview window, scale down the resulting image, and copy and paste it into the preview box at Themes > your theme > Preview. Then quit the Preview and save.



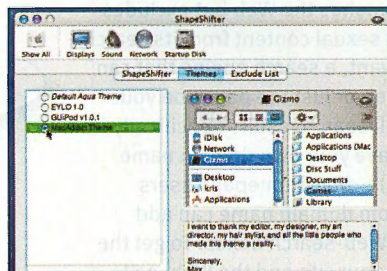
With ThemePark, we checked out what our title-bar elements looked like in Cocoa.

5 Tweak the States To create quick-'n'-dirty transparency graphics (these show which parts of an image are transparent and which aren't), copy and paste the Opaque 1 image into a new image-editor document. Fill the entire image portion with white (fully opaque), keeping the background black (totally transparent). Then copy and paste the graphic into Transparent 1 and 5 in ThemePark. Go back to the image-editor image and invert the colors (in Photoshop, select Image > Adjustments > Invert)—copy and paste this new graphic into both Mask 1 and Mask 5 in ThemePark (the mask shows which parts of the image respond to clicks). Opaque 2 displays the button in its active (clicked) state. In your image editor, alter your new graphic to represent an active state—add color or whatever (we made Max blush). When finished, copy and paste the graphic in Opaque 2. Then create its transparency and mask (just copy and paste graphics from row 1 if you didn't alter the shape). The images in Opaque 3 and 4 display the button in disabled states. Desaturate the color from the Opaque 1 image in your image editor, and copy and paste the image into Opaque 3 and 4. Then create transparency (use gray instead of white to fill in the image portion of the graphic) and masks for both. Save.

Coloring the Transparent 3 and 4 silhouettes gray makes the ultimate Composite 4 and 4 images appear grayed out, indicating a disabled state.



7 Load Your Theme To use your theme with ShapeShifter, first export it. In ThemePark, select Export Theme from the File menu, then For ShapeShifter. In the resulting dialog, type a name for your file and click Export. Then double-click the new guiKit file to open the ShapeShifter preference pane. Click the Themes tab, select your new theme from the list in the left column, and click Apply Selected to activate your theme (you may have to log out of your Mac and back in to propagate the changes to all your apps). To switch back to Aqua, just open the ShapeShifter preferences, click the ShapeShifter tab, uncheck the Enable ShapeShifter box, and log out and back in.



To load the new theme in ShapeShifter, just double-click the file—the ShapeShifter preference pane opens, allowing you to select your new creation.

Geek that she is, Mary E. Tyler pays more attention to her computer's appearance theme than to the choices in her meager wardrobe.

Add Search to Your Site

by Niko Coucouvanis

EASY

WHAT YOU NEED

- Web site with your own domain name
- Internet access
- Text editor, such as TextEdit (part of Mac OS X)
- FTP client, such as Transmit 2 (\$24.95, www.panic.com)

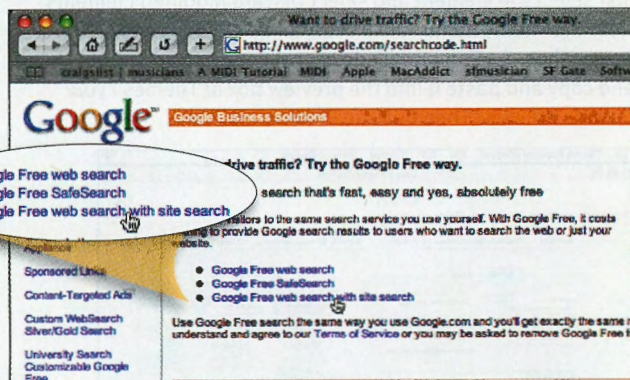
Back in the old days, adding search capabilities to your personal Web site involved finding, customizing, and installing Perl scripts, and then minding line breaks, futzing with file paths, deciphering those infernal chmod file permissions, and invoking other varieties of big, bad voodoo. These days many major search engines, including Google, are happy to set you up with a free, precoded search box that allows your visitors to seek out content on the worldwide Web or just on your own Web site. Why the unbridled generosity? The searchmonger gets something in return: Free advertising in the form of its site logo on your page and free traffic to its site any time someone searches yours. It's a win-win situation.

If you want to help your visitors find what they're looking for on your site, here's how to add a search box to it, courtesy of Google. If you don't already have a site with your own domain name, you can register a domain on the cheap—about \$15 a year and up. To get one, contact your local ISP or consult InterNic's site (www.internic.net/alpha.html) for a list of accredited registrars.



You've seen it on the Web—search powered by Google. Now you can add Google searching to your own site.

1 Pick Your Poison Google offers three flavors of Web search: a standard search engine for searching the Web at large; a SafeSearch engine, which searches the Web but excludes adult-themed and explicit sexual content from its search results; and the one you want, a search engine that can search either the whole Web or just the pages on your site. To have an engine pull search results specifically from your own site, you must have your own domain name (à la www.mydomain.com)—Mac Homepage users and others without a custom domain name can add either of Google's regular Web-search boxes. To get the engine that'll search both your site and the Web, go to www.google.com/searchcode.html, and click Google Free Web Search With Site Search. If you don't have your own domain, select one of the other two choices.

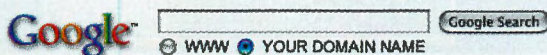


Select this last choice on Google's search list—it'll provide a search engine that can search either your site specifically or the entire Web.

2 Copy and Paste After you click the link in step 1, a box that displays a bunch of HTML code appears in your browser. This code, once embedded in an HTML document, generates the Google logo, search box, radio controls, and labels—and it's all yours, free for the taking. Click anywhere in the box, select all the text (Command-A), and then copy it to the Mac OS Clipboard (Command-C). Launch your text editor (we used TextEdit in plain-text format), and open the HTML file for the page to which you want to add the search box (such as your home page). Find the code line representing where you want the search box to appear on the page, place your cursor there, and paste in the search code (Command-V).

```
<!-- SiteSearch Google -->
<FORM method=GET action="http://www.google.com/search">
<TABLE bgcolor="#FFFFFF"><tr><td>
<A HREF="http://www.google.com/">
<IMG SRC="http://www.google.com/logos/Logo_40wht.gif"
border="0" ALT="Google"> </A>
</td>
<td>
<INPUT TYPE=text name=q size=31 maxlength=255 value="">
<INPUT type=submit name=btnG VALUE="Google Search">
<font size=-1>
<input type=hidden name=domains value="YOUR DOMAIN
NAME"> <br> <input type=radio name=sitesearch value=""> WWW
<input type=radio name=sitesearch value="YOUR DOMAIN NAME"
checked=""> YOUR DOMAIN NAME <br>
</font>
</td></tr></TABLE>
</FORM>
<!-- SiteSearch Google -->
```

Here is what it will look like on your site:



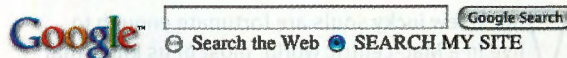
Copy and paste this bit of text into your HTML code to get a snazzy Google search box on your site. The graphic below the code box here shows what the search box looks like.

4 Send It Away Once you're finished, save the page. Then upload it to your remote Web server. Fire up Transmit 2 (or your FTP client of choice), type your domain name in the Server field, type your user name for your site in the User Name field, type your password in the eponymous field, and type the path to the Web directory where you want to store the HTML page in the Initial Path field. (If you don't remember your site's settings, get them from your Internet service provider.) Click Connect to connect to your specified directory on the Web server, and then drag and drop the HTML document from the Finder onto the Transmit window to upload it. Once it's up, your site is ready to be searched.

Server:	www.mysite.com
User Name:	ncouc
Password:	*****
Initial Path:	/Library/WebServer/Documents/
Port:	
Protocol:	Secure (SFTP)
Connect	

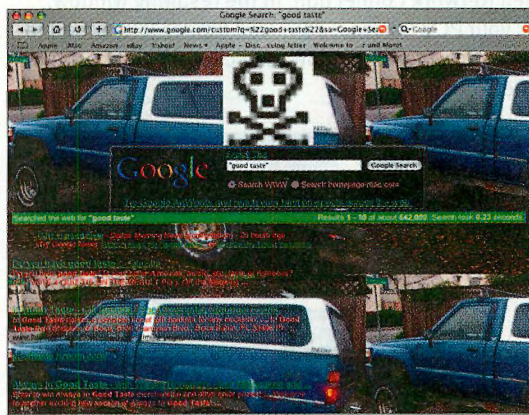
Once you upload your HTML page to your Web server, it's good to go.

3 Make It Your Own If you opted for the plain-vanilla Web search or the G-rated version, skip to step 4. If you want to enable searching on your own site, you need to tweak the search code a bit to reign in the mighty Google engine and focus it on one domain name (yours) instead of all 16 bazillion domains on the Web—happily, the propeller heads at Google make it easy. Comb through the code in your HTML document for three instances of the phrase *YOUR DOMAIN NAME*, and replace each instance with—you guessed it—your domain name (for example, we replaced the phrase with *www.macaddict.com*). If you want to spunk up the prefab bit with a little more personality, type something else for the last instance, which provides the label for your site's radio-button selector. You can also replace the default *WWW* label (for the radio button that searches the entire Web) with your own text.



Customization is king.

5 Make It Purty You can also customize the look of the results page a little if you want. Point your browser back to Google's search code page (www.google.com/searchcode.html) and scroll down the page until you see the header *More Google Free Stuff*. Below it, click the *Customizable Google Free Web And Site Search Services* link. On the resulting page, follow the instructions to register your site if you haven't already (it's free). Then enter the email address and password you created in the login box and click *Login*. The subsequent page displays all the available customization options. You can upload a logo and a background picture if you like, and set colors for the page's background and fonts, including active, visited, and default links. It's not as customizable as a .Mac Homepage, but you can't expect a whole lot for nothing.



Google lets you customize the look of the results page, but it can't account for good or bad taste.

Niko Coucouvanis wishes Google could find the technovernacular term for that little bunny thing that greyhounds chase around the racetrack.

Sneak Your Mac onto a Windows Network

by Ian Sammis

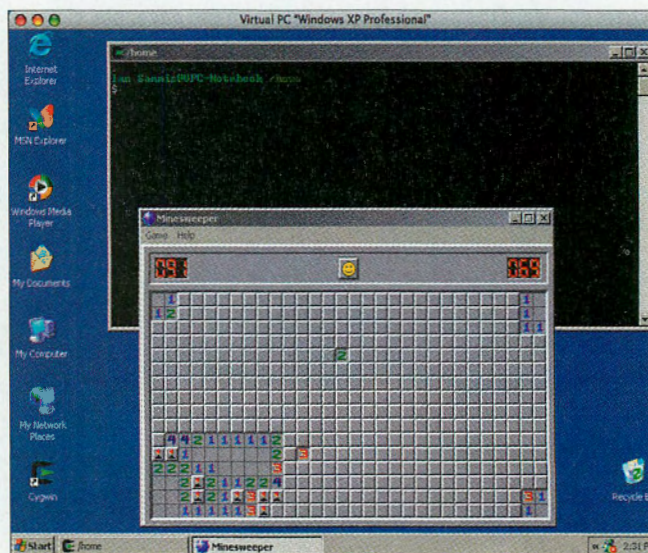


WHAT YOU NEED

- Mac running Mac OS X (10.3 recommended)
- Access to a network
- PC running Windows
- NetWare Client for Mac OS X if connecting to Novell Netware servers (\$149, www.prosofteng.com)

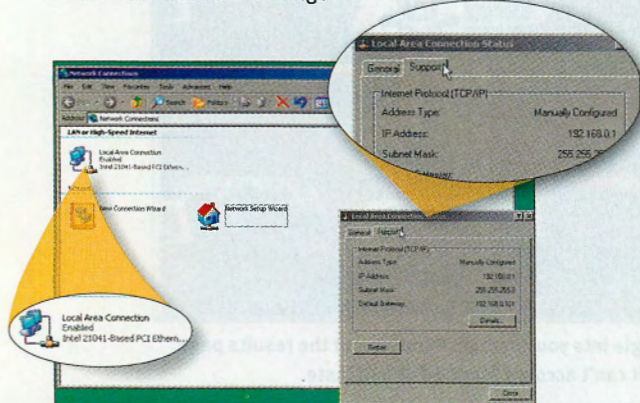
While a few lucky souls are fortunate enough to live in a Mac-centric world, most of us know that sometimes Macs are few and far between. Even if we manage to convince our employers that we really *need* a Mac to get our jobs done (to do graphic arts, for example—or to avoid mental anguish), many corporations simply won't support Macs. But there's hope: Using Mac OS X, you can put your Mac on a network that never had anything but Windows in mind.

We take you through three stages of infiltration: Getting on the network, accessing files, and (for Panther users) printing.



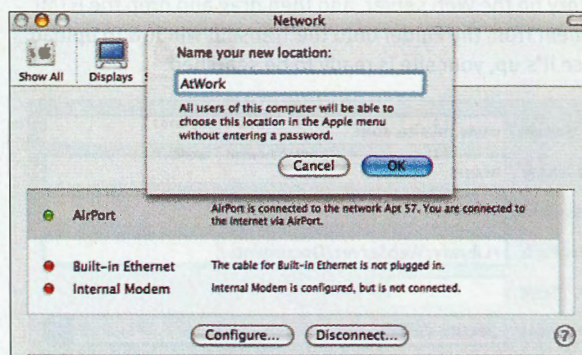
Even if your boss says no to your Mac requests, you can hitch your Mac to the office Windows network and run Windows (via Virtual PC).

1 Scope the Settings Let's assume you're at work and have your network-connected PC as well as a Mac that you would rather use. To connect the Mac to the network, set its network settings to match those of your PC so that you can simply unplug the PC's Ethernet cable and plug it into the Mac. From the Start menu on the PC, select Settings, then Network Connection. In the resulting window, double-click your PC's Ethernet card icon (upper-left corner) to open its Connection Status window, and click the Support tab to view the network settings.



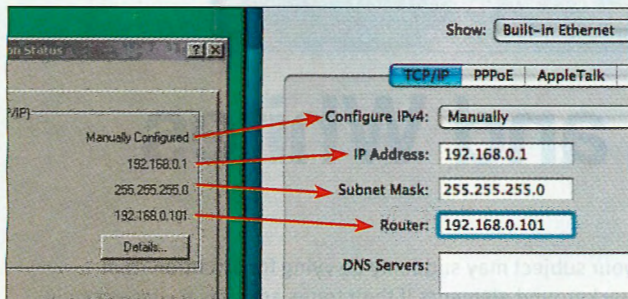
To change settings, double-click your PC's LAN (local area connection) icon to bring up its Connection Status dialog.

2 Seek a New Location If you are connecting an iBook or PowerBook, create a *new location*, a settings file that lets you easily switch between your work and home networks. (If not, skip ahead to step 3 unless you plan on lugging around your Power Mac.) To create a new location on the Mac, open System Preferences, and click Network to open its preference panel. Select New Location from the Location pop-up menu, type a name for your new configuration in the resulting dialog (we named ours AtWork), and click OK to create it.



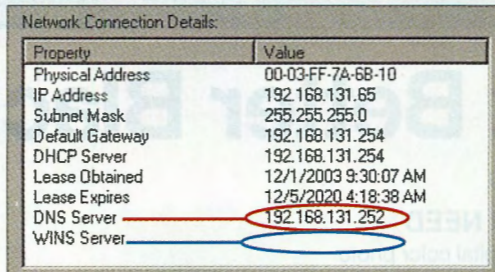
Don't overwrite your existing network settings. Instead, create a new location on the Mac so you can easily switch between your work and home networks.

3 Play the Match Game To set the Mac's network configuration, select Built-in Ethernet from the Show pop-up menu to display the settings. Look at the PC: If the PC's Address Type displays Assigned By DHCP, select Using DHCP from the Mac's Configure IPv4 pop-up menu. Ignore the other three fields and skip to step 4. If the PC's Address Type displays Manually Configured, choose Manually from the Mac's Configure IPv4 pop-up and enter the data from the PC's other three fields into the appropriate places on the Mac (Router on the Mac is equivalent to Default Gateway on the PC).



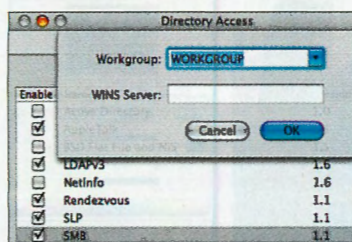
If your networking is configured manually, enter all three network numbers into your Mac.

4 Get the Details If your company assigns IP numbers manually and/or it uses a WINS server, you will need two more numbers: the DNS and WINS server addresses. To view them, click the Details button in the PC's Connection Status window. Make a note of both addresses (it may display one or none) in the resulting panel. If your IP number was manually assigned, enter the DNS Server number into the DNS Servers field on the Mac. (We'll get to the WINS address in step 5.) OK, let's connect! Disconnect the Ethernet cable from your PC, plug it into your Mac, and connect to a Web site. If you see a page, you're on the network (if your company is Internet-connected, of course).



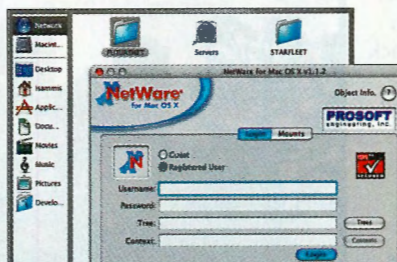
Scope out the PC's DNS and WINS server addresses, but don't panic if you see only one—or none. You won't need them if they're not listed.

5 He Who Uses a Mac WINS The WINS (Windows Internet Naming Service) server is akin to a DNS server but used for Windows network services in place of TCP/IP names. If the WINS server field was blank in the Details window, your company doesn't use a WINS server—skip to step 6. If you have a number, go to Applications > Utilities > Directory Access on the Mac. In the resulting window, click the lock icon, enter your password, and click OK. Select SMB (server message block), and click Configure. In the resulting dialog, enter the WINS server address in the WINS Server field, select your usual workgroup from the Workgroup pop-up, and click OK.



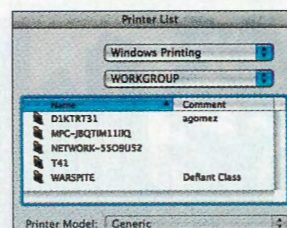
Entering the WINS server number and setting your workgroup is easy—once you figure out where to put it!

6 Serve Up Files PC networks commonly use Windows or Novell NetWare file servers. Windows file sharing is easy: To connect, click Panther's Network sidebar button or select Connect To Server from the Go menu in older versions of OS X to display a list of Windows server names. Then browse and connect. If your company uses Novell NetWare servers (you'll know right away if you see a big red N; Novell flaunts more branding than the average NASCAR driver), launch NetWare Client for Mac OS X, enter your network user name and password in the fields, and click Login. Your Mac will be indistinguishable from other PCs on the network.



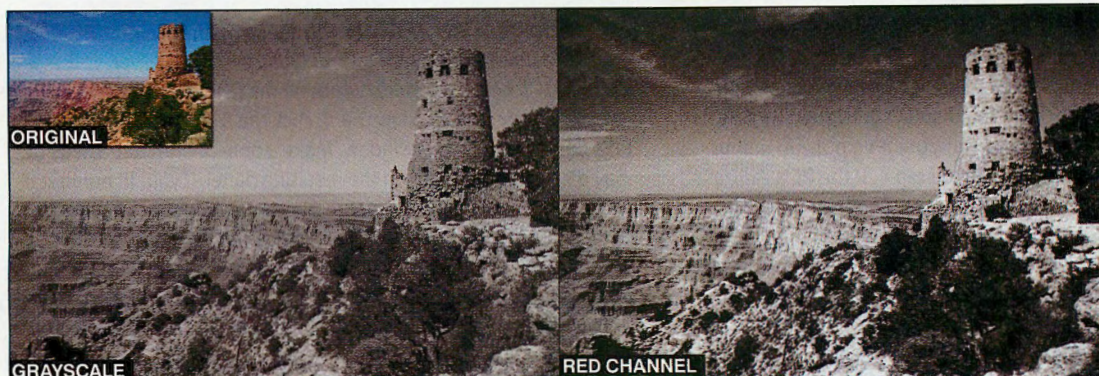
Windows file-server icons look just like Mac ones (left), so it's hard to tell servers apart; if you're trying to access a NetWare file server, use ProSoft's NetWare Client (right).

7 Prints: The Revolution If you're using pre-Panther OS X, printing to a Windows printer is tricky—try using Gimp-Print (free, <http://gimp-print.sourceforge.net>) or Virtual PC (\$249, www.microsoft.com/mac). (The latest version of Virtual PC isn't G5 or fully Panther-compatible, but the next version will be, according to Microsoft; it will ship in the first half of 2004.) If you've got Panther, go to Applications > Utilities, and open the Printer Setup Utility. Click Add, and in the resulting dialog, select Windows Printing from the top pop-up menu. Then browse the network to find your usual company printer. Printers can be configured in many ways, so you may have to use IP printing if you hit a snag.



Finding printers is difficult if you don't know where they live on a Windows network—most machines don't have printers attached.

Ian Sammis has been hiding a Mac among Windows machines for the last two years.



Digital cameras and image editors can make a muddy mess with grayscale conversions (left), but you can get more dramatic results by channel surfing (right).

PHOTOGRAPHY BY KRIS FONG

Get Better Black and Whites

by Kris Fong

WHAT YOU NEED



- Digital color photo
- Image editor that supports color channels and curves, such as Photoshop CS (\$649, www.adobe.com) or Canvas 9 (\$349.99, www.acdsystems.com)

Anseld Adams created strikingly bold black-and-white photos. Unfortunately, he's no longer around to help when our digital camera muddies our ambitious attempts. In black-and-white mode, a digital camera simply transforms color into 256 shades of gray. So does an image editor's grayscale conversion. Depending on your composition,

your subject may suddenly be vying for attention from background elements if their tones are similar—for example, green grass, red brick, and a blue ocean may appear as similar shades of gray. You can do better.

Instead, snap your pic in color and then manipulate the image's color channels on your Mac (with camera images, these channels are red, green, and blue—aka RGB). Your goal is to find the color channel that best affects your chosen element, whether you want to play something up or conceal it. OK, let's go channel surfing. (We're using Photoshop, but you can apply our instructions with your tool of choice.)



1 Change the Channel Open your photo in Photoshop. From the Window menu, select Channels to display the red, green, and blue color channels individually, along with the composited RGB one. Click any channel to view a grayscale representation of that color's presence in your image. The darker the gray, the less there is of that color in the photo. The lighter the gray, the greater that color's presence.

White is full-intensity red, green, and blue, while black lacks all of these colors. Click through each channel to see how it affects your image (see "Recipes for Success," p76). If your image editor displays channel information in the selected color, set it to display grayscale.

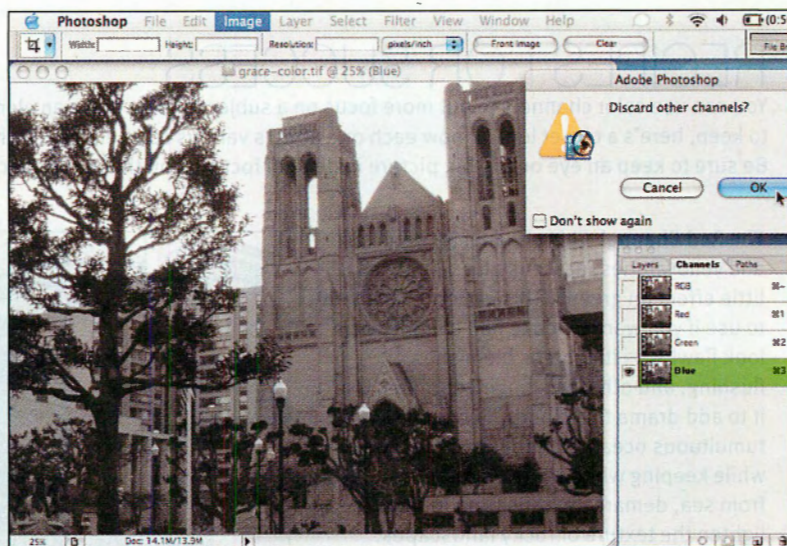
Because purple halos marred our original photo (upper left), we decided to convert it to black and white. Here's how it fared in each color channel.



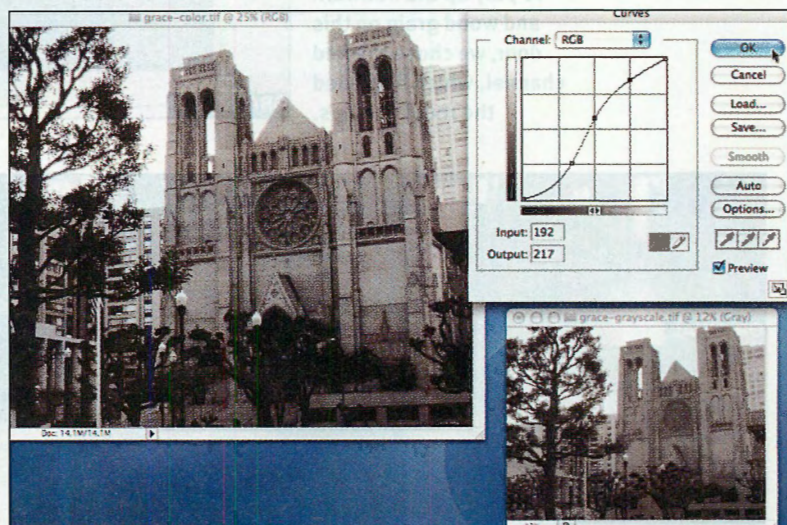
2 Decide, Then Dump Decide which channel works best for your subject and select it in the Channels palette.

Then dump the other color channels by selecting Image > Mode > Grayscale. A dialog pops up, asking if you're sure you want to do this; click OK. Then turn your grayscale image back to RGB by selecting Image > Mode > RGB Color. Voilà—a better-looking black-and-white photo. If you're happy with the way your photo looks, stop here and save the file (be sure to choose Save As if you want to preserve the original). But if you *really* want to play up the drama, use Photoshop's Curves to further tweak what you started.

To create greater distinction between the building architecture and the manicured trees, we chose the Blue channel.



3 Get Some Curves Select Image > Adjustments > Curves; the resulting dialog displays a square with a diagonal line cutting across it. To alter the brightness or darkness of a tonal region, click anywhere on the line to create a point; clicking toward the left affects the darker tones, while clicking toward the right affects lighter shades. Then click and drag the point upward to lighten or downward to darken; the line curves in response. You can slide the point anywhere on the line to affect a different region of grays, and add more points to fine-tune several regions. If you want an Ansel Adams–like effect of strong contrast, click one point in the darker region and one point in the lighter region. Then drag the dark point down and the light point up to form a slight S shape. Play around with the shape until you're satisfied. Then click OK and save.



We placed three points in Curves to bring out the architectural detail and darken the trees (note the pallid grayscale version in the lower right).

CHEAP TRICKS

Don't have Photoshop, Canvas, or another high-ticket graphics app? You can still get better black-and-white results by performing these tricks in any affordable image editor, such as GraphicConverter (\$35, www.lemkesoft.com).

Desaturate Details You might achieve more favorable monochromatic results by desaturating an image instead of doing a grayscale conversion. Open your image editor's saturation control, and move the slider all the way to the left to remove color.

Control Contrast If your grayscale conversion looks OK, add more intensity via contrast and brightness. To make blacks blacker and whites whiter, move the Contrast slider to the right. Add drama by decreasing brightness—move the Brightness slider a little to the left.

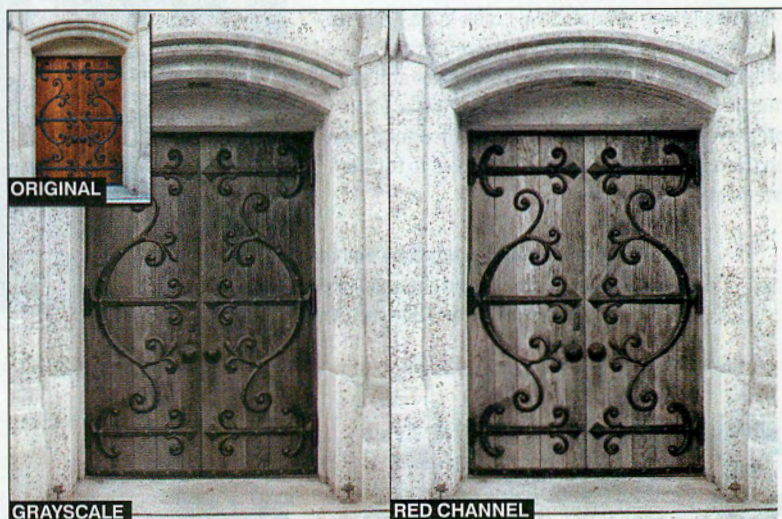
Desaturate Channels You can manipulate color channels in GraphicConverter, but the process is different. From the Picture menu, select Brightness/Contrast. To view, say, the Red channel, check the Full Screen Preview box, move the Brightness Red and Saturation sliders all the way to the left. Click Reset to view the image in color again. Repeat with the Blue and Green channels. Decide which one looks best and click OK.

RECIPES FOR SUCCESS

You can use color channels to put more focus on a subject or play down an element. To help you choose which color channel to keep, here's a closer look at how each one affects various color elements when you're viewing an image in shades of gray. Be sure to keep an eye on the big picture instead of focusing on that one aspect in your image.

The Red Channel This channel lightens red and yellow tones, darkens blues, and has little effect on greens. This is a good channel to use if you want to make bad complexions look flawless—it lightens blemishes, flushing, and other red-tinged oddities. Use it to add drama to a cloud-filled blue sky or tumultuous ocean (it'll deepen blue tones while keeping white white), separate sand from sea, demarcate trails from foliage, or lighten the texture of rocky landscapes.

To play up the ironwork and wood grain on this door, we chose the Red channel, which lightened the reddish tones.



The Green Channel This channel lightens greens and yellows, darkens reds, and has little effect on blues. If your image contains foliage with varying shades of green, this channel will bring out more of the tonal variations among the plants. Use it to highlight leaves against tree trunks, make skin appear tan, accentuate red lips, or deemphasize ugly dirt patches in grassy fields.

The grayscale image looks OK, but selecting the Green channel toned down the reds and brightened the gold tones, creating drama.

The Blue Channel This channel lightens blues, darkens greens and yellows, and slightly darkens reds. It can highlight subjects against an ocean or blue sky. Use it to call more attention to architectural subjects, introduce film grain if you want your pictures to look old (if your image has digital noise), make rocky landscapes darker and moodier, or balance images filled with green and red plants. This isn't a flattering channel for people—unless you want their faces to look dirty.

In the grayscale image, the fountain competes with the foliage and paneling. Choosing the Blue channel darkened these elements to highlight the sculpture.



Kris Fong notes that some muddy things are great (Muddy Waters, the Muddy River, Kahlua Mudslides), but muddy black and whites are not.



MacAddict

Welcomes...

Applesonly.com

Apple Computer Memory and Component Specialist

Pg. 89

Join them...

in the May 2004 issue featuring
a digital/video camera roundup

Ad Space close February 24

Materials due March 2

On-sale date April 14

Did you know this about our audience?

69% Own a digital camera

77% Use a Mac for personal digital
photography

16% Use a Mac for professional digital
photography

31% Own a video camera

43% Use a Mac for personal digital video
photography

11% Use a Mac for professional digital
video photography

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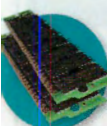
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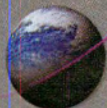
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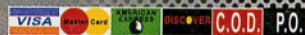


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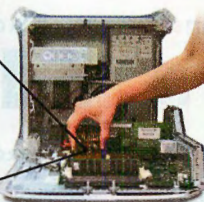
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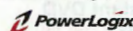


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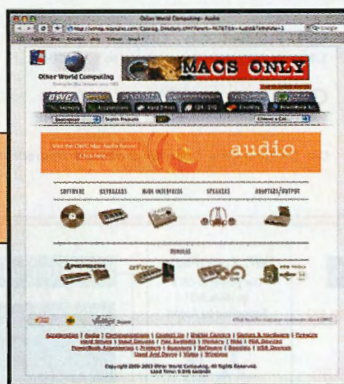


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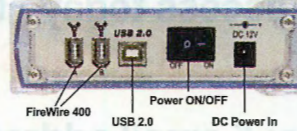


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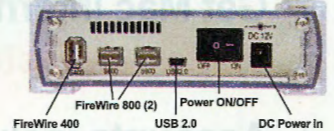
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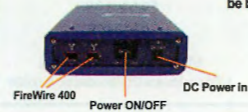
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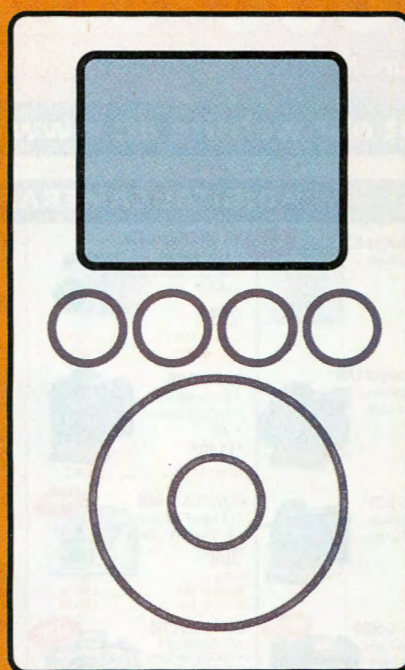
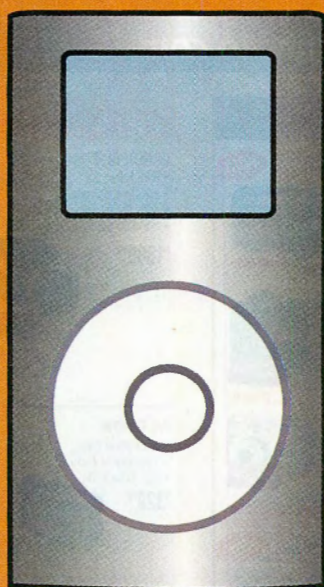
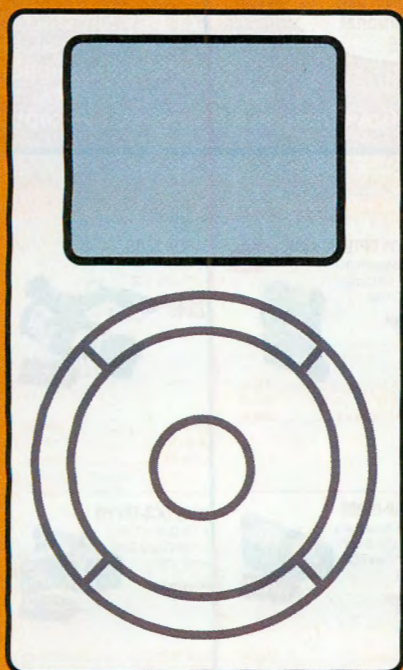
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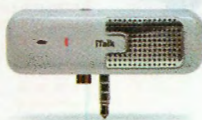
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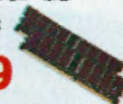
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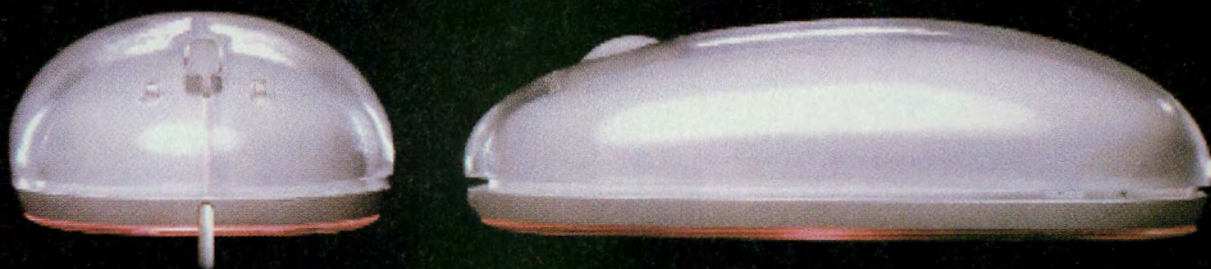
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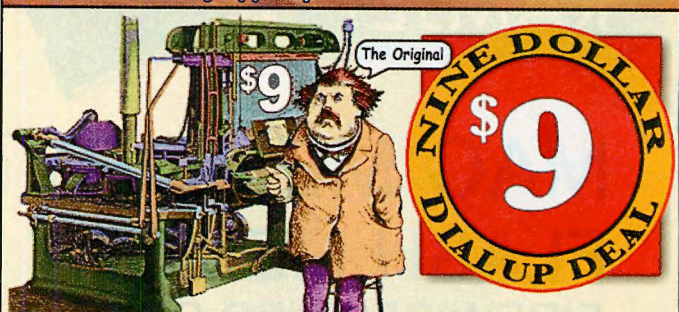
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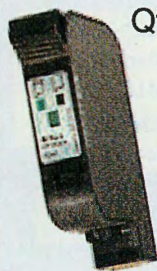
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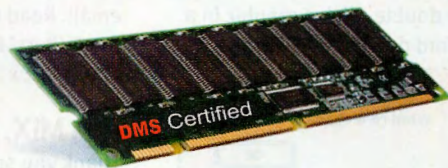
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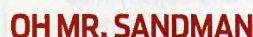
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UNKNOWN TERRITORY

law, under which spammers can be fined up to \$1 million for sending unsolicited email. Read more about it on the *Editors' Page* (Dec/03, p10).—Max



THE GOLDEN NO-SPAM STATE

RIP, MIX, SUBSCRIBE

SPAM IS SPEECH TOO

KITTY LETTER

A white and blue Ford Focus race car, heavily branded with 'MacAddict' and various sponsor logos. The car features a large yellow 'MacAddict' logo on the side, a white cross on the front fender, and numerous sponsor stickers including Goodyear, Mobil 1, 3M, and others. The car is shown from a front-three-quarter view, angled towards the left.

RECENTLY SIGHTED

on my iBook. Before I had a chance to read it, Creole hit Return to reply, typed in a text message, and hit Return again, sending an email response (see below). —*Maggie Schwarz*

[illegible]

Kitty English, the alternative to Pig Latin.

TO G4 OR TO G5?

I'll be going to college soon with the intent of majoring in graphic design, a field in which Macs are pretty much the industry standard. Would it be better to buy a cheaper Dual Power Mac G4 or a single Power Mac G5?
—Brad Borkowski

If you are going to have this Mac for a few years and you're low on cash, search eBay for a 1.8GHz G5, and then load it up with 1GB of RAM. Within the next year or two, most apps will be optimized for the G5, so you'll be in better shape than if you get an older G4 dualie.—Max

WHO'S THAT GUY?

Who is Brendan McKenna, who appears on the *Editors' Page* (Dec/03, p10)?
—Muneer

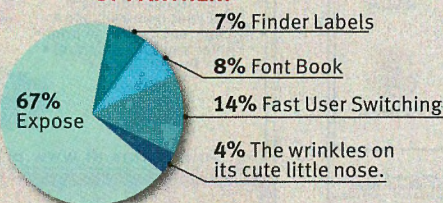
Brendan McKenna temporarily helped out our art department in a time of need. We hear he's currently recovering from a heaping helping of his grandmother's Spam Surprise Casserole.
—Max

SURVEY SAYS

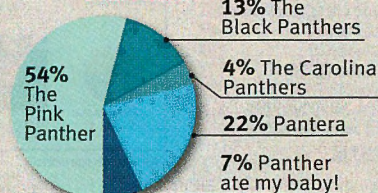
Online Poll Results

Here are the results of our November 2003 online poll. Go to www.macaddict.com each month to give us your two cents on Mac-related questions.

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AS POWERFUL AS THE SUN

At the end of October, the sun unleashed the fourth most powerful solar flare ever recorded and hurled it toward Earth. This particle storm, measuring 13 times larger than Earth, was rated a G5—the highest intensity on scientists' scale of space weather—and it traveled at about 8 million kilometers per hour, taking just 19

hours to cover the 150 million kilometers to Earth. Ain't it neat that the G5 is both Apple's and the Sun's best work?—*Rieife Rollandson*
And a Power Mac G5 runs a lot cooler than a solar flare's 10 to 20 million degrees Kelvin.—*Max*

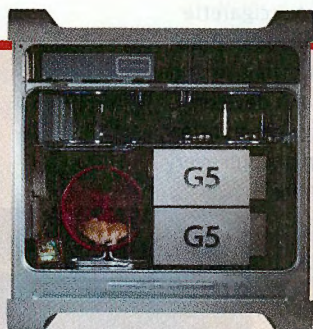
WHAT'S WRONG WITH LASSIE?

I'm a little bit concerned for that poor, adorable pooch sitting directly in front of the Roomba Pro Elite robo vacuum (*Get Info*, Dec/03, p16). How on Earth did it shed all that fur? Please don't tell me my Mac is emitting strong waves of electro-magnetic field radiation! —*Raiza Singh*

Roomba's prop department went a little fur crazy during their photo shoot—"Lassie" assured us she's fine.—*Max*

THE TRUTH ABOUT SASHA

Our December 2003 issue marked the debut of Sasha, the hamster that wriggled her way into our hearts and into our Power Mac G5 (*Shut Down*, Dec/03, p96).



RETIRED

The world has spoken and the world wants more of Sasha the Wonder Hamster! —*Nathan Koga*

Alas, the MacAddict offices were no place for our furry friend, so Sasha is now living in secluded anonymity in a loving home.—*Max*

RODENT ROCK

At the risk of creating interspecies confusion, I just gotta say that your hamster is a fox! She should be fronting for

Hampton and the Hamsters (www.hamsterdance.com). —*E.C.*

Dixie and Hado might get jealous.—*Max*

PEOPLE FOR ETHICAL TREATMENT OF...

I can't believe you put a hamster in your G5 (*Shut Down*, Dec/03, p96)! What if the hamster had damaged the poor G5! What if her poo had shorted the RAM!—*Eric W.*
No G5s were harmed in the making of this magazine. —*Max*

CONTEST

MacAddict



Win two hot games:
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Send email entries to: contest@macaddict.com with the subject MacSoft Contest.
Deadline for entry: March 31, 2004.
Contest results will appear in our Jul/04 issue.

Contest Rules

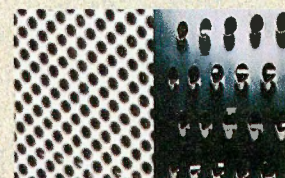
The judges will be MacAddict editors and will base their decision on 33 percent humor, 33 percent originality, and 33 percent creativity. All entries must be received no later than March 31, 2004, with the winner announced around July 2004. By entering this contest, you agree that Future Network USA may use your name, likeness, and Web site for promotional purposes without further payment. All prizes will be awarded, and no minimum number of entries is required. Prizes won by minors will be awarded to their parents or legal guardians. Future Network USA is not responsible for damages or expenses the winners might incur as a result of this contest or the receipt of a prize, and winners are responsible for income taxes based on the value of the prize received. A list of winners may also be obtained by sending a stamped, self-addressed envelope to Future Network USA c/o MacAddict Contest, 150 North Hill Dr., Brisbane, CA 94005. This contest is limited to residents of the United States. No purchase necessary, void in Arizona, Maryland, Vermont, Puerto Rico, and where prohibited by law.

CONTEST

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Maxtor Caption Contest Results

Congratulations to **George Canellis**, whose caption for this picture won him a Maxtor 250GB OneTouch Drive.



Seurated...Serrated.

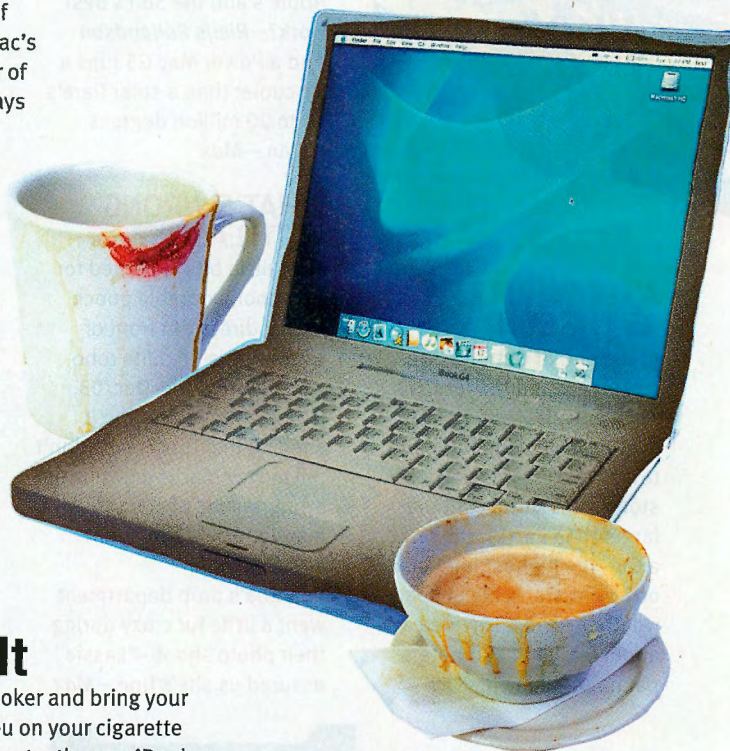
BACK TO BEIGE

TIRED OF WHITE, SILVER, AND OTHER FASHION STATEMENTS?

Ah, the good old days when the sauce from your bucket of honey-Dijon chicken wings blended right in with your Mac's color scheme. Those were days of freedom from the fear of mucking up your Mac's gorgeous finish. Here are three easy ways to ditch your white gloves and get back to beige.

Dip It Like Biscotti

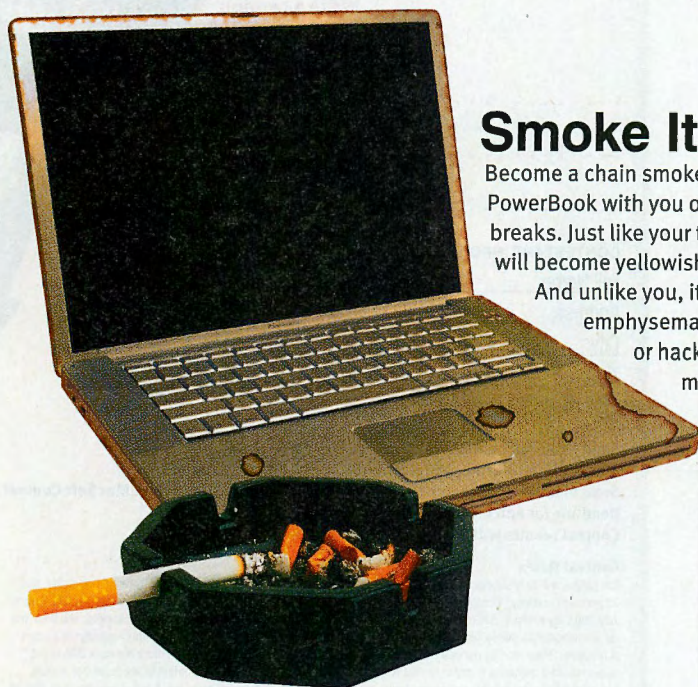
You've spilled coffee all over your keyboard anyway. Why not go all the way, and turn your little accident(s) into a bold, unabashed statement? For an especially appealing caramel hue, we recommend the daily application of one Starbucks Toffee Nut Latte.



Smoke It

Become a chain smoker and bring your PowerBook with you on your cigarette breaks. Just like your teeth, your 'Book will become yellowish-brown in no time.

And unlike you, it won't develop emphysema, age prematurely, or hack up phlegm every morning.



Toss It into the Pig Pen

Less toxic than coffee or cigarettes, mud's rich mineral content will leave your iMac's lily-white skin smooth, supple, and beautifully beige. Simple clay adheres well, but loam provides a more-lustrous glow.

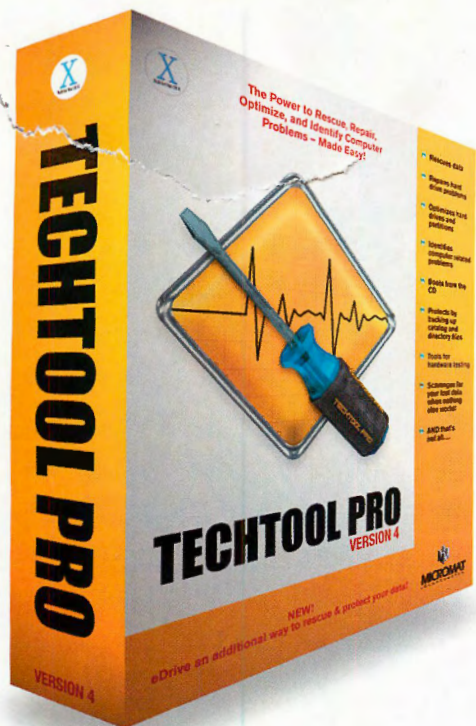


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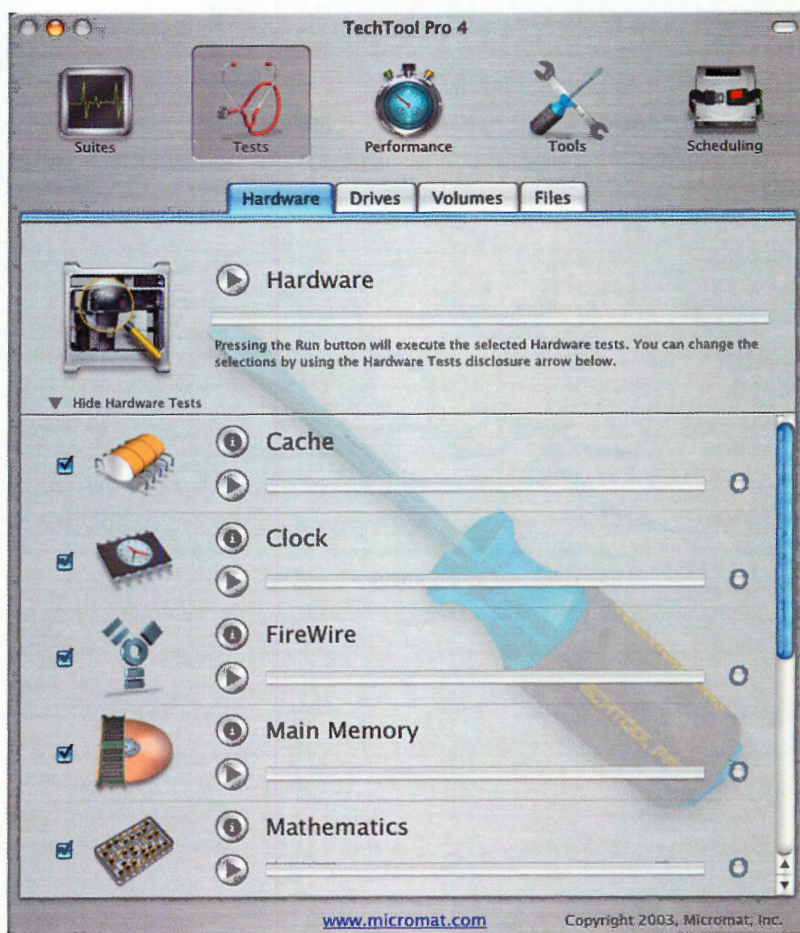


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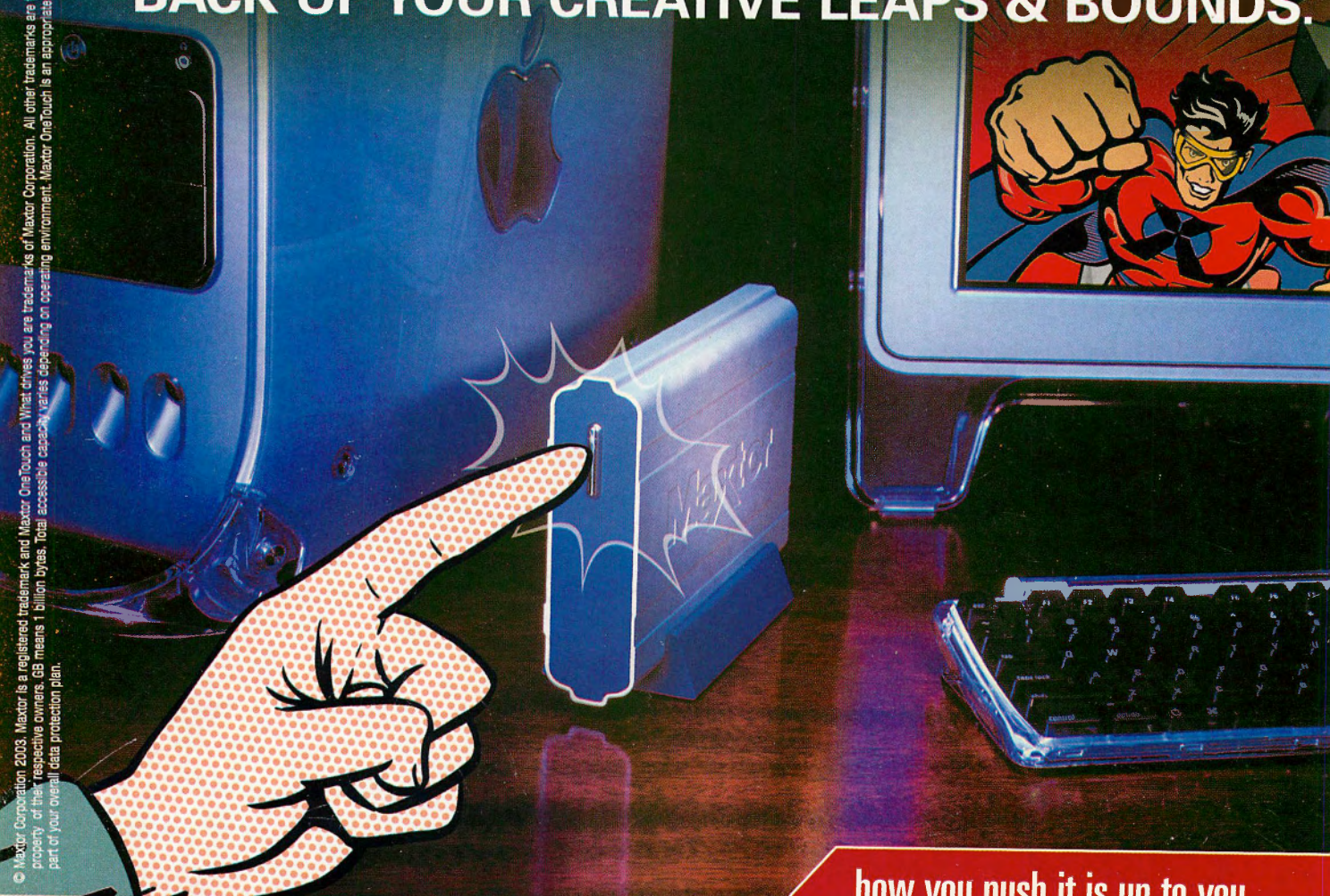
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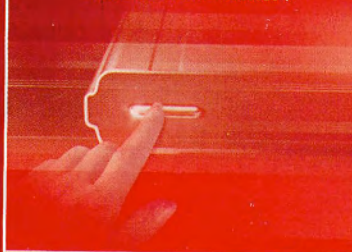
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